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PROJECT MEMORANDUM

To: Alex Sherrin, USEPA

From: Christene Binger and
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Date: February 21, 2022

Project No. 2491-010

Re: Summary of Activities:
November 2020 to December 2021
60 Olympia Avenue
Woburn, Massachusetts

OVERVIEW

This project memorandum provides an overview of remedial and monitoring activities conducted at the 60 Olympia Avenue project in Woburn, Massachusetts (the Site) between September 2020 and December 2021. The last project memorandum was submitted on October 27, 2020 and included a summary of activities between April 2019 and August 2020. The results of historical groundwater sampling events and events described in this memorandum are summarized in Table 1. The results of these groundwater sampling events have been used to guide and focus remedial injection events. The volumes of permanganate solution injected during each event are summarized in Table 2. Table 3 summarizes the monitoring status and constituent trend observations for each well.

The initial approach in 2005 was broad treatment and injection within the treatment cell. The treatment cell consists of a fiberglass sheet pile wall extending to 20 feet below grade surface (bgs) that contains an area approximately 60 feet wide by 150 feet in length (see Figure 1). A portion of the downgradient side of the treatment cell extends to 25 feet bgs. During the initial field injection season in 2005, gravity drainage delivery methods were used over a 4-month period to deliver concentrated (i.e., 40 percent) permanganate solution into the two stratigraphic layers within the treatment cell. The two stratigraphic layers consist primarily of a sand layer (shallow layer) and an underlying silt layer (deeper layer). The sand layer varies in thickness and has been typically observed to extend to 6 to 8 feet below bgs. The underlying silt layer extends to depths of approximately 20 to 22 feet bgs. During subsequent field injection seasons (2007 to 2020),



additional permanganate solution was injected within the treatment cell using direct-push drill rig and manual gravity drainage methods.

Monitoring events typically include observations of purple color (indicative of residual permanganate) in monitoring and injection wells and collecting samples from monitoring wells for laboratory analysis for volatile organic compounds (VOCs). Purple color is rated on a scale from 0 to 4, with 0 having no color, and 4 being opaque and black in color. The samples collected are preserved with hydrochloric acid and, if permanganate is present in the sample collected for analysis, the permanganate solution in each sample is neutralized using ascorbic acid. Purple color is rated on a scale from 0 to 4, with 0 having no color, and 4 being opaque and black in color. Plots of dissolved trichloroethylene (TCE) concentrations and observed permanganate in selected monitoring wells are included as Attachment A.

Treatment events typically include injecting permanganate solution into localized areas within and near the treatment cell to address specific areas, including the areas just outside the east and southwest sides of the cell (see Table 2 for injection volumes). Monitoring is generally performed prior to, during, and after injection events to evaluate data trends and focus future injection activities. Typically, injection events are focused in areas that indicate increases in VOC concentrations and are less dependent on permanganate saturation strength, especially if an area had already achieved a 3 or 4 on the permanganate color scale. Groundwater analytical data are summarized in Table 1.

SUMMARY OF ACTIVITIES – November 2020 to December 2021

November 2020 – Focused Injection Event

Based upon review of permanganate distribution and the presence of VOCs detected during the March and August 2020 monitoring events, a focused remedial injection event was conducted on November 17 and 18, 2020. The injection event focused on the presence of VOCs near monitoring wells inside the cell (MW-205D, MW-206D, MW-207S, MW-209S, and MW-212S) and two monitoring wells outside the cell, to the southwest (MW-213S) and to the east (MW-215M).

40 Percent sodium permanganate solution was diluted using potable water to 2 to 4 percent solution for injection. The primary injection method used was direct push via track-mounted GeoProbe. Seven direct push borings (designated DP-509 to DP-515) were advanced to inject approximately 2,500 gallons of permanganate solution during the two-day injection event. Sodium permanganate injection events are summarized in Table 2.

April 28, 2021 – Comprehensive Monitoring Event

A comprehensive permanganate monitoring and sampling event was performed on April 28, 2021. During this event, the MW-200 series monitoring wells and select other monitoring and injection wells were evaluated for the presence of permanganate. In addition, groundwater samples were collected from 50 monitoring wells. The monitoring wells that were sampled in April 2021, grouped by location and well cluster, are summarized in the table below.



Monitoring Wells Inside Cell		
MW-200S	MW-205S	MW-210S
MW-200D	MW-205D	MW-210D
MW-201S	MW-206S	MW-211D
MW-201D	MW-206D	
MW-202S	MW-207S	OL-002
MW-202D	MW-207D	OL-2M
MW-203S	MW-208S	OL-003
	MW-208D	OL-3M
MW-204S	MW-209S	MW-212S
MW-204D	MW-209D	

Monitoring Wells Outside Cell		
MW-212M	MW-215S	MW-218M
MW-212D	MW-215M	MW-218D
MW-215D		
MW-213S	MW-216S	MW-219S
MW-213M	MW-216M	MW-219M
MW-213D	MW-216D	MW-219D
MW-214S	MW-217S	MW-220M
MW-214D	MW-217M	MW-220D
	MW-217D	

September 24, 2021 – Focused Monitoring Event

On September 24, 2021, groundwater samples were collected from monitoring wells MW-201S, MW-201D, MW-205D, MW-206D, MW-207S, MW-208D, MW-209S, MW-209D, MW-210S, MW-211D, MW-212S, MW-213S, MW-215M, MW-216S, MW-217M, and MW-218M. The presence of permanganate was noted for these wells during sampling.

October 20, 2021 – Focused PFAS Monitoring Event

On October 20, 2021, GeoInsight collected groundwater samples from seven (7) monitoring wells for analysis of per- and polyfluoroalkyl substances (PFAS). The event included monitoring wells MW-202S, MW-202D, MW-205D, and MW-206D located inside the treatment cell and monitoring wells MW-215M, MW-216S, and MW-217M located outside the treatment cell. Results were provided in a separate project memorandum dated January 25, 2022 and submitted to USEPA.



Summary

Between November 2020 and December 2021, two remedial monitoring events, one injection event, and one focused PFAS sampling event were performed. Laboratory analytical results for the primary VOCs are summarized in Table 1 and trend plots for individual monitoring wells are included in Attachment A. Table 3 summarizes TCE concentration trends in each monitoring well and indicates the focus areas of monitoring and additional injection events. The results of the focused PFAS monitoring event were previously submitted to USEPA under separate cover.

Review of remedial monitoring data indicates:

- remedial efforts have significantly reduced TCE concentrations in the MW-200 series monitoring wells;
- in general, when TCE was reduced to low concentrations and unreacted permanganate was observed, the treatment was reduced, and groundwater monitoring was performed;
- areas that exhibited fluctuating TCE concentrations were identified for focused injection activities to treat the localized area; and
- focused injection activities in the area of MW-211D and MW-217M in December 2019 were effective in that dissolved TCE concentrations decreased significantly, and the presence of permanganate was sustained and observed in these areas in 2020 and 2021.

ATTACHMENTS:

Table 1 – Summary of Groundwater Analytical Data – Primary VOCs

Table 2 – Summary of Sodium Permanganate Injection Events

Table 3 – Summary of TCE Concentrations – MW-200 Series Performance Monitoring Wells

Figure 1 – Site Plan

Figure 2 – Direct-Push Injection Locations

Attachment A – Sodium Permanganate and TCE Concentration vs. Time Plots

Laboratory Analytical Reports

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ATTACHMENTS

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA - PRIMARY VOCs
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

Location Identification	Sampling Date	Screen Interval (feet)	Color	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
				Groundwater Standards			
				5	5	70	2
INSIDE CONTAINMENT CELL							
OL-002 (DUP)	12/15/87	4-9'	---	41	3,100	---	---
	12/15/87		---	33	3,400	---	---
	09/16/97		---	8	3,700	3	<1
	03/20/02		---	<120	7,900	<120	<120
OL-002 (Field Dup D02290)	03/20/02		---	<120	8,000	<120	<120
	04/22/03		---	3	91	4	<1
	06/02/03		---	<5	330	17	<5
	04/14/05		---	<50	3,200	76	<100
	04/22/08		0	<10	79	<10	<10
	04/07/09		1	<3	41	<3	<3
OL-2	10/18/11		0	<20	37	22	<20
	04/17/12		0	<10	52	14	<10
	03/07/13		0	<2	22	15	<2
	03/21/14		1	<5	2.5	5.4	<5
	04/25/19		0	<2.5	21	30	<2.5
	04/28/21		0	<1	15	32	<1
OL-2M	07/09/02	21.5-31.5'	---	<0.1	5	<2	<0.1
	06/02/03		---	<0.5	<0.5	<0.5	<0.5
	04/14/05		---	<1	<1	<1	<2
	01/11/06		---	<25	1,600	<25	<25
	02/09/06		---	<250	22,000	<250	<250
	03/10/06		---	<25	1,800	<25	<25
	04/24/06		---	<5	400	<5	<5
OL-2M (DUP-3)	04/24/06		---	<5	430	<5	<5
	07/19/06		---	1	80	<0.5	<0.5
	08/31/06		---	<1	34	<1	<1
	09/28/06		---	0.7	25	<0.5	<0.5
	12/14/06		0	0.8	37	<0.5	<0.5
	03/28/07		0	6	260	<5	<5
	04/24/07		0	<10	690	<10	<10
	04/22/08		0	<0.5	3	<0.5	<0.5
	04/07/09		1	1	2	<0.5	<0.5
	03/07/13		0	<1	3.8	<1	<1
	03/21/14		0	<1	7.1	<1	<1
	10/05/15		0	<1	5.3	<1	<1
	03/23/18		0	<1	19	1.9	<1
	04/25/19		0	<2	32	3.5	<2
	03/19/20		0	<2.5	41	4.4	<2.5
	04/28/21		0	<5	52	6.3	<5
GEO-4	06/24/03	6-16'	---	<5	340	<5	<5
	04/14/05		---	<50	2,500	<50	<100
	07/19/06		0	<0.5	<0.5	<0.5	<0.5
	04/07/09		2	<25	<25	<25	<25
	03/07/13		2	<20	<20	<20	<20
	03/21/14		3	<10	36	<10	<10

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Location Identification	Sampling Date	Screen Interval (feet)	Color	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
				Groundwater Standards			
				5	5	70	2
TEST-1 TEST-1 (Field Dup D02947)	07/09/02	1.8-16.8'	---	14	12,000	15	2
	07/09/02		---	15	12,000	15	2
	06/02/03		---	3	1,300	130	3
	06/24/03		---	<5	400	53	<5
	04/14/05		---	<50	3,500	390	<100
	04/14/05		---	<50	3,600	400	<100
TEST-1 (DUP-5)	04/08/09		1	<0.5	<0.5	<0.5	<0.5
	04/17/12		2	<1	<1	<1	<1
	03/07/13		2	<1	<1	<1	<1
	03/21/14		2	<1	<1	<1	<1
Test 1							
OL-003	12/15/87	4-9'	---	45	180	23	ND
	09/16/97		---	5	94	280	95
	03/18/02		---	0.508 (J)	13	57	16
	06/02/03		---	0.8	2	11	7
	04/13/05		---	<25	930	480	77
	04/24/08		0	13	370	450	82
	04/07/09		3	<25	<25	<25	<25
	03/07/13		1	<1	2.4	10	<1
OL-3							
OL-003	03/21/14		0	<1	<1	1.3	2.2
	04/25/19		0	<1	8.5	8.6	1.4
	04/28/21		0	5.8	430	550	240
OL-3M							
	07/10/02	21.5-31.5'	---	<0.1	0.191	<2	<0.1
	06/02/03		---	<0.5	<0.5	<0.5	<0.5
	04/13/05		---	<1	<1	<1	<2
	04/07/09		4	<3	<3	<3	<3
	03/07/13		1	3.6	7.1	<2	<2
	03/21/14		3	<10	<10	<10	<10
	10/12/18		3	<2	2.7	<2	<2
	04/25/19		3	<5	<5	<5	<5
	04/28/21		3	<1	17.0	15	42
GEO-3	06/24/03	6-16'		<0.5	4	49	35
MW-200S	04/14/05	6.5-9.5'	---	<200	14,000	<200	<400
	04/07/09		4	<25	<25	<25	<25
	03/23/11		3	<50	<50	<50	<50
	03/07/13		3	<100	<100	<100	<100
	04/13/16		2	<20	<20	<20	<20
	02/21/17		2	<100	<100	<100	<100
	04/25/19		3	<25	36	<25	<25
	04/28/21		0	<50	190	<50	<50
MW-200D MW-200D (Dup)	04/14/05	14-17'	---	<25,000	870,000	<25,000	<25,000
	04/14/05		---	<25,000	770,000	<25,000	<25,000
	04/07/09		4	<50	<50	<50	<50
	02/15/10		4	<250	<250	<250	<250
	03/23/11		4	<500	<500	<500	<500
	03/07/13		3	<10	<10	<10	<10
	03/21/14		3	<50	<50	<50	<50
	02/21/17		4	<50	<50	<50	<50
	04/25/19		4	<50	<50	<50	<50
	04/28/21		4	<200	<200	<200	<200

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Location Identification	Sampling Date	Screen Interval (feet)	Color	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
				Groundwater Standards			
				5	5	70	2
MW-201S	04/14/05	6.5-9.5'	---	<5	330	<5	<10
	11/05/07		---	<2.5	4	<2.5	<2.5
	04/24/08		2	<10	5	<10	<10
	03/23/11		0	<0.5	4	<0.5	<0.5
	03/07/13		2	<5	<5	<5	<5
	03/21/14		2	<10	14	<10	<10
	09/29/14		1	<1	6.8	<1	<1
	02/21/17		0	<10	400	<10	<10
	05/10/17		1	2.0	95	<2	<2
	10/26/17		1	<1	9.5	2.3	<1
	04/25/19		0	1.1	20	<1	<1
	04/28/21		0	<5	950	<5	<5
	09/24/21		0	<1	86	2.6	<1
MW-201D	04/14/05	14-17'	---	<1	11	<1	<2
	11/05/07		---	<5	<5	<5	<5
	03/23/11		2	<100	9,300	<100	<100
	10/18/11		1	110	18,000	120	<100
	08/24/12		4	6.8	11	<5	<5
	03/07/13		1	<10	350	<10	<10
	07/31/13		1	<50	4,300	50	<50
	03/21/14		2	<10	120	<10	<10
	09/29/14		1	<20	2,200	48	<20
	05/12/15		2	<10	35	<10	<10
	10/05/15		2	<5	710	16	<5
	10/18/16		0	<1	7.7	1.3	<1
	02/21/17		0	<20	2,000	23	<20
	05/10/17		0	<5	370	8.7	<5
	10/26/17		1	<25	3,900	57	<25
	03/23/18		1	<1	26	<1	<1
	04/25/19		0	<1	13	<1	<1
	04/28/21		0	<1	190	11	<1
	09/24/21		0	2.2	170	7	<1
MW-202S	04/14/05	6.5-9.5'	---	<100	6,200	<100	<200
	04/22/08		3	<25	<25	<25	<25
	03/07/13		0	<20	770	<20	<20
	07/31/13		0	<50	1,600	<50	<50
	03/21/14		0	<10	1,300	<10	<10
	07/15/14		0	<20	2,300	<20	<20
	05/12/15		0	<10	820	<10	<10
	10/05/15		---	<10	690	<10	<10
	04/13/16		---	<10	290	<10	<10
	10/18/16		0	<10	220	<10	<10
	02/21/17		0	<50	160	<50	<50
	10/26/17		---	<1	49	<1	<1
	04/25/19		0	<5	24	<5	<5
MW-202D	04/14/05	14-17'	---	<2,000	89,000	<2,000	<4,000
	04/07/09		4	<100	<100	<100	<100
	11/03/09		4	<100	<100	<100	<100
	03/23/11		4	<250	<250	<250	<250
	03/07/13		3	<10	<10	<10	<10
	03/21/14		4	<100	<100	<100	<100
	02/21/17		4	<200	<200	<200	<200
	04/25/19		4	<40	<40	<40	<40
	04/28/21		4	<200	<200	<200	<200

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WOBURN, MASSACHUSETTS

Location Identification	Sampling Date	Screen Interval (feet)	Color	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
				Groundwater Standards			
				5	5	70	2
MW-203S	04/14/05	3-6'	---	<10	500	<10	<20
	04/25/07		0	<0.5	3	0.7	<0.5
	11/05/07		---	<0.5	1	0.7	<0.5
	04/23/08		0	<0.5	39	<0.5	<0.5
	04/07/09		0	<0.5	4	0.5	<0.5
	03/23/11		0	<0.5	3	0.7	<0.5
	03/07/13		2	<40	83	<40	<40
	07/31/13		0	<1	3.8	<1	<1
	03/21/14		0	<1	2.5	<1	<1
	10/05/15		0	<10	130	<10	<10
	04/13/16		---	<1	2.2	2.1	<1
	02/21/17		0	<1	1.8	<1	<1
	04/25/19		0	<1	1.2	<1	<1
	04/28/21		0	<1	8.8	6.1	<1
MW-203D	04/14/05	14-17'	---	<500	42,000	<500	<1,000
	08/31/06		1	<250	24,000	<250	<250
	12/14/06		2	120	<5	<5	<5
	11/05/07		---	<500	33,000	<500	<500
	04/24/08		0	<250	26,000	<250	<250
	08/06/08		0	<250	37,000	<250	<250
	11/13/08		4	<250	47,000	<250	<250
	12/11/08		3	<25	<25	<25	<25
	03/09/09		2	200	14,000	<100	<100
	11/03/09		0	350	45,000	<250	<250
	02/15/10		3	30	<25	<25	<25
	09/01/10		2	<130	<25	<25	<25
	03/23/11		2	120	12,000	<100	<100
	10/18/11		1	<100	3,200	<100	<100
	04/17/12		2	69	6,800	<25	<25
	08/24/12		4	18	64	<5	<5
	03/07/13		0	<1	<1	<1	<1
	07/31/13		3	<50	3,000	<50	<50
	03/21/14		2	<10	54	<10	<10
	09/29/14		1	26	2,000	<20	<20
MW-204S MW-204S (DUP-8)	04/14/05	7-10'	---	<50	2,400	280	<100
	04/14/05		---	<50	2,200	250	<100
	04/23/08		2	<250	<250	<250	<250
	04/07/09		3	<10	<10	<10	<10
	03/23/11		3	<0.5	<0.5	<0.5	<0.5
	03/07/13		2	<50	<50	<50	<50
	03/21/14		2	<10	<10	<10	<10
	02/21/17		1	<20	<20	<20	<20
	04/25/19		3	<5	<5	<5	<5
	04/28/21		0	<5	<5	<5	<5

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Location Identification	Sampling Date	Screen Interval (feet)	Color	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
				Groundwater Standards			
				5	5	70	2
MW-204D	04/14/05	14-17'	---	<1,000	60,000	<1,000	<2,000
	04/25/06		0	<2,500	190,000	<2,500	<2,500
	07/19/06		0	<2,500	160,000	<2,500	<2,500
	08/31/06		0	<2,500	220,000	<2,500	<2,500
	09/28/06		0	<2,500	210,000	<2,500	<2,500
	04/25/07		0	<5,000	260,000	<5,000	<5,000
	04/24/08		1	<2,500	460,000	<2,500	<2,500
	08/06/08		2	<2,500	190,000	<2,500	<2,500
	11/13/08		2	<500	70,000	<500	<500
	03/09/09		4	<50	<50	<50	<50
	04/08/09		3	<100	<100	<100	<100
	11/03/09		4	<250	<250	<250	<250
	09/01/10		4	<250	<50	<50	<50
	03/23/11		3	110	6,900	<100	<100
	10/18/11		2	<1000	4,600	<1,000	<1,000
	04/17/12		4	<50	<50	<50	<50
	03/07/13		1	<20	<20	<20	<20
	03/21/14		3	<10	12	<10	<10
	02/21/17		2	<250	<250	<250	<250
	04/25/19		1	<50	<50	<50	<50
	04/28/21		3	<100	<100	<100	<100
MW-205S	04/13/05	4-7'	---	<1	12	4	<2
	10/30/06		1	<0.5	2	8	<0.5
MW-205S (DUP-3)	04/23/08	0	0	<0.5	5	5	1
	04/23/08		0	<0.5	4	4	0.9
MW-205SX	04/07/09	0	1	<0.5	<0.5	<0.5	<0.5
	03/23/11		0	<0.5	3	5	1
MW-205SX	03/23/11	0	0	<0.5	3	5	1
	03/07/13		0	<1	<1	13	8.6
MW-205SX	03/07/13	0	0	<1	<1	13	8.6
	03/21/14		0	<1	1.9	7.2	2.6
MW-205SX	03/21/14	0	0	<1	1.8	7	2.4
	10/05/15		0	<1	1.6	7	<1
	02/21/17		0	<1	4.9	4.4	3
	04/25/19		0	<1	3.8	<1	6.8
	04/28/21		0	<1	2.9	7.5	22

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA - PRIMARY VOCs
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

Location Identification	Sampling Date	Screen Interval (feet)	Color	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
				Groundwater Standards			
				5	5	70	2
MW-205D	04/13/05	14-17'	---	<500	16,000	<500	<1,000
	04/26/06		0	<1,000	61,000	<1,000	<1,000
	07/19/06		0	<2,500	98,000	<2,500	<2,500
	08/31/06		0	<2,500	110,000	<2,500	<2,500
	09/28/06		0	<2,500	120,000	<2,500	<2,500
	10/30/06		0	<1,000	120,000	<1,000	<1,000
	04/25/07		0	<2,500	120,000	<2,500	<2,500
	04/23/08		1	340	25,000	<250	<250
	08/06/08		4	<25	<25	<25	<25
	11/13/08		4	<50	<50	<50	<50
	03/09/09		4	<100	<100	<100	<100
	11/03/09		4	<100	<100	<100	<100
	09/01/10		4	<250	<50	<50	<50
	03/23/11		4	<100	<100	<100	<100
MW-205DX	03/23/11		4	<100	<100	<100	<100
MW-205DX	10/18/11	4	4	<100	<100	<100	<100
MW-205DX	10/18/11		4	<250	<250	<250	<250
MW-205DX	03/07/13		3	<20	<20	<20	<20
MW-205DX	03/07/13		3	<20	<20	<20	<20
MW-205DX	03/21/14		4	<10	<10	<10	<10
MW-205DX	03/21/14		4	<20	<20	<20	<20
MW-205DX	02/21/17		2	<100	<100	<100	<100
MW-205DX	04/25/19		0	<20	1,700	53	<20
	08/14/19		0	<25	880	48	<25
	03/19/20		0	<1	5.4	1.4	6
	08/05/20		0	<100	4,400	140	<200
	04/28/21		3	<50	7,400	260	<50
	09/24/21		1	<40	3,600	120	<40
MW-206S	04/14/05	4-7'	---	<100	8,200	130	<200
MW-206S	04/23/08		1	<5	<5	<5	<5
MW-206S	03/23/11		3	<0.5	<0.5	<0.5	<0.5
MW-206S	03/11/13		2	<1	<1	<1	<1
MW-206S	03/21/14		3	<1	<1	<1	<1
MW-206S	02/21/17		0	<5	<5	<5	<5
MW-206S	04/25/19		0	<1	1.0	1.2	<1
MW-206S	04/28/21		0	<1	<1	<1	<1

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA - PRIMARY VOCs
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

Location Identification	Sampling Date	Screen Interval (feet)	Color	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
				Groundwater Standards			
				5	5	70	2
MW-206D	04/14/05	14-17'	---	<25	<25	70	<50
	04/26/06		0	<1,000	81,000	<1,000	<1,000
	07/19/06		0	<1,000	73,000	<1,000	<1,000
	08/31/06		0	<1,000	78,000	<1,000	<1,000
	09/28/06		0	<1,000	87,000	<1,000	<1,000
	04/25/07		0	<1,000	83,000	<1,000	<1,000
	04/23/08		0	500	100,000	400	<50
MW-206D (DUP-2)	04/23/08		0	<1,000	77,000	<1,000	<1,000
	08/06/08		2	320	870	<3	<3
	11/13/08		3	<500	78,000	640	<500
	12/11/08		3	<25	<25	<25	<25
	03/09/09		2	200	<50	<50	<50
	11/03/09		2	330	14,000	300	<100
	02/15/10		2	260	9,200	280	<50
	09/01/10		1	210	34,000	2,900	<3
	03/23/11		1	150	17,000	2,400	<100
	10/18/11		0	<500	13,000	1,900	<500
	04/17/12		0	72	8,400	1,400	<25
	08/24/12		0	<200	10,000	1,200	<200
	03/07/13		1	<100	4,400	630	<100
	07/31/13		1	<100	5,800	630	<100
MW-206D-DUP	03/21/14		0	42	3,700	520	<40
	03/21/14		0	45	3,600	550	<10
	07/15/14		0	46	4,000	520	<25
	05/12/15		0	<20	1,700	310	<20
	10/05/15		0	29	2,400	300	<25
	04/13/16		2	<10	400	73	<10
	10/18/16		1	<20	1,200	150	<20
	02/21/17		1	<25	680	88	<25
	05/10/17		1	<10	200	60	<10
	10/26/17		0	<10	1,000	180	<10
	03/23/18		0	<10	530	350	<10
	04/25/19		0	<10	1,100	510	<10
	08/14/19		0	<1	170	140	<1
	03/19/20		1	<4	130	140	<4
	08/05/20		1	<20	970	230	<40
	04/28/21		1	12	1,200	210	<10
	09/24/21		1	<20	2,200	430	<20

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA - PRIMARY VOCs
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

Location Identification	Sampling Date	Screen Interval (feet)	Color	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
				Groundwater Standards			
				5	5	70	2
MW-207S	04/13/05	6-9'	---	110	3,700	1,700	320
	12/14/06		1	<10	550	150	<10
	11/05/07		---	<25	890	580	54
	04/22/08		0	83	1,700	51	<10
	08/06/08		2	62	39	<5	<5
	04/07/09		2	<10	<10	<10	<10
	03/23/11		1	25	930	61	<10
	10/18/11		0	<20	970	390	<20
	08/24/12		0	<40	2,000	810	42
	03/07/13		1	11	130	10	<4
	07/31/13		1	<10	160	27	<10
	03/21/14		0	<20	1,700	1,100	74
	07/15/14		0	<10	550	300	16
	05/12/15		0	<20	1,700	100	<20
	10/05/15		0	<20	3,200	1,300	100
	04/13/16		0	<25	2,100	440	<25
	10/18/16		0	<50	2,800	3,200	330
	02/21/17		2	10	100	<10	<10
	10/26/17		0	<20	2,400	820	62
	03/23/18		0	22	2,500	560	31
	04/25/19		1	11	720	160	8.9
	03/19/20		0	27	2,900	1,200	78
	08/05/20		0	<40	2,100	1,100	100
	04/28/21		0	<20	2,700	1,400	52
	09/24/21		0	<20	1,800	620	41
MW-207D MW-207D (DUP-7)	04/14/05	14-17'	---	<100	7,900	<100	<200
	04/14/05		---	<100	8,100	<100	<200
	04/07/09		4	<50	<50	<50	<50
	03/23/11		4	<100	<100	<100	<100
	03/07/13		4	<10	<10	<10	<10
	03/21/14		0	<10	<10	<10	<10
	02/21/17		2	<50	<50	<50	<50
	04/25/19		2	<25	<25	<25	<25
	04/28/21		3	<50	<50	<50	<50
MW-208S	04/14/05	4-7'	---	<25	1,100	1,300	95
	04/22/08		2	<25	<25	<25	<25
	04/07/09		3	<10	<10	<10	<10
	03/23/11		2	<0.5	<0.5	1	<0.5
	03/07/13		1	<1	<1	2.8	1.7
	03/21/14		0	<1	<1	<1	<1
	02/21/17		0	<1	6.9	18	9.6
	04/25/19		0	<1	7.7	2.6	2.8
	04/28/21		0	<1	1.4	3.5	3.4

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA - PRIMARY VOCs
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

Location Identification	Sampling Date	Screen Interval (feet)	Color	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
				Groundwater Standards			
				5	5	70	2
MW-208D	04/14/05	14-17'	---	<500	38,000	<500	<500
	12/14/06		---	<2,500	170,000	<2,500	<2,500
	12/11/08		3	<25	<25	<25	<25
	03/09/09		4	<100	<100	<100	<100
	11/03/09		2	40	<25	<25	<25
	09/01/10		3	250	73	<50	<50
MW-208DX	09/01/10		3	<2,500	91,000	<500	<500
	03/23/11		3	500	64,000	<500	<500
	10/18/11		2	380	36,000	410	<100
MW-208 (DUP-1)	10/18/11		2	<500	38,000	<500	<500
	04/17/12		3	300	23,000	280	<50
	08/24/12		1	290	22,000	270	<250
	03/07/13		1	<250	12,000	320	<250
	03/07/13		1	<200	11,000	290	<200
	07/31/13		0	<400	11,000	<400	<400
MW-208D-DUP	03/21/14		1	210	8,000	590	<50
	03/21/14		1	160	8,200	670	<50
	07/15/14		0	230	7,400	520	<100
	05/12/15		0	84	2,200	690	<25
	10/05/15		0	120	2,700	510	<25
	04/13/16		0	50	570	350	<10
	10/18/16		0	<100	880	500	<100
	02/21/17		0	<100	500	380	<100
	05/10/17		0	23	210	210	<10
	10/26/17		0	24	310	240	<5
	03/23/18		0	20	100	94	<10
	04/25/19		0	6.6	54	86	<5
	08/14/19		0	<20	100	84	<20
	03/19/20		0	<5	27	33	<5
	08/05/20		0	<25	65	30	<50
	04/28/21		0	<5	34	42	<5
	09/24/21		0	2.6	48	41	<2.5
MW-209S	04/13/05	7-10'	---	<10	520	1,200	270
	04/22/08		0	<5	22	<5	<5
	04/07/09		2	<5	<5	<5	<5
	03/23/11		0	<10	44	<10	<10
	10/18/11		0	1.4	34	1.00	<1
	03/07/13		0	<10	<10	<10	<10
	07/31/13		0	<10	<10	<10	<10
	03/21/14		0	<10	11	<10	<10
	10/05/15		0	10	130	<10	<10
	04/13/16		---	<20	49	<20	<20
	02/21/17		0	<10	140	<10	<10
	04/25/19		0	16	480	53	<5
	03/19/20		0	33	210	7.1	<4
	08/05/20		0	33	240	39	<20
MW-209D	04/28/21		2	27	59	<5	<5
	09/24/21		1	22	210	5.3	<2
	04/13/05		---	<25	1,600	<25	<50
	04/08/09		3	<10	<5	<10	<10
	03/23/11		3	<10	<5	<10	<10

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA - PRIMARY VOCs
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

Location Identification	Sampling Date	Screen Interval (feet)	Color	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
				Groundwater Standards			
				5	5	70	2
MW-210S	04/13/05	7-10'	---	<50	730	3,500	1,100
	11/05/07		---	<25	430	1,000	61
	04/22/08		0	<25	2,400	2,900	290
	08/06/08		3	<25	<25	<25	<25
	04/07/09		0	3	30	<0.5	<0.5
	09/01/10		2	<25	<5	<5	<5
	03/23/11		2	<3	18	4	<3
	10/18/11		3	<5	<5	<5	<5
	03/07/13		1	<1	14	13	1.6
	07/31/13		0	<5	130	210	11
	03/21/14		4	<1	<1	<1	<1
	02/21/17		0	<10	930	1,000	200
	05/10/17		3	<4	<4	6	<4
	04/25/19		0	<1	<1	<1	<1
	04/28/21		0	3.6	190	260	23
	09/24/21		0	3.5	210	220	19
MW-210D	04/14/05	14-17'	---	<25	650	1,900	<50
	04/07/09		4	<5	<5	<5	<5
	09/01/10		4	<130	<25	<25	<25
	03/23/11		3	<5	<5	<5	<5
	03/07/13		3	<20	<20	<20	<20
	03/21/14		3	<10	<10	<10	<10
	02/21/17		0	<10	<10	710	270
	04/25/19		3	<40	<40	5,200	1,900
	04/28/21		0	<100	<100	15,000	4,700
	04/14/05		---	<2	39	140	27
MW-211S	12/14/06	6.5-9.5'	0	<0.5	1	2	0.6
	04/25/07		0	<0.5	1	0.7	<0.5
	04/22/08		0	<0.5	2	2	0.8
	09/01/10		0	<3	0.5	<0.5	<0.5
	03/23/11		0	<0.5	<0.5	0.6	<0.5
	03/07/13		0	<1	<1	1.2	<1
	03/21/14		0	<1	<1	<1	<1
	02/21/17		0	<1	<1	<1	<1
	04/14/05		---	<5	83	150	<10
	11/05/07		---	<50	3,300	830	<50
MW-211D	04/22/08	14-17'	1	8	69	<1	<1
	04/08/09		2	<0.5	<0.5	<0.5	<0.5
	03/23/11		2	<25	380	1,600	<25
	10/18/11		0	<10	440	830	<10
	04/17/12		2	<1	10	81	<1
	03/07/13		1	<50	210	1,700	<50
	07/31/13		0	<100	690	3,900	<100
	03/21/14		2	<1	18	110	<1
	09/29/14		0	<40	110	4,800	<40
	02/21/17		0	<100	430	11,000	610
	10/26/17		0	<100	580	16,000	1,000
	03/23/18		0	<50	540	9,200	530
	04/25/19		2	<10	23	950	33
	08/14/19		2	<40	110	4,100	180
	03/19/20		4	<1	<1	<1	<1
	08/05/20		4	<1	<1	<1	<2
	04/28/21		4	<2	4.1	190	4.4
	09/24/21		4	<5	20	810	59

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA - PRIMARY VOCs
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

Location Identification	Sampling Date	Screen Interval (feet)	Color	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
				Groundwater Standards			
				5	5	70	2
MW-212S	04/14/05	10-13'	---	450	360	12	<20
	04/26/06		0	1,200	2,300	<25	<25
	08/31/06		0	1,300	2,200	39	<25
	09/28/06		0	240	1,000	310	<25
	10/30/06		0	1,300	1,900	42	<25
	04/26/07		0	1,200	1,800	68	<25
	04/24/08		0	1,100	2,100	200	<25
	04/08/09		3	<25	<25	<25	<25
	03/23/11		0	1,200	1,600	21	<10
	10/18/11		0	1,300	2,500	<50	<50
	03/07/13		2	2.4	3.0	<1	<1
	03/21/14		1	<10	11	<10	<10
	09/29/14		0	<1	<1	<1	<1
	02/21/17		1	12	410	<10	<10
	10/26/17		0	15	1,600	<10	<10
	04/25/19		0	13	630	<5	<5
	03/19/20		0	22	1,100	<10	<10
	08/05/20		0	<20	1,200	<20	<40
	04/28/21		0	41	3,600	<25	<25
	09/24/21		0	88	4,900	<40	<40
DEEP OVERBURDEN WELLS							
GEO-1	09/21/99	90-100'	---	<1.5	2.5	<1	<2
	03/18/02		---	0.104	0.244	<2	<0.1
	09/13/05		---	<0.5	<0.5	<0.5	<0.5
	01/11/06		---	<0.5	<0.5	<0.5	<0.5
	04/24/06		---	<0.5	<0.5	<0.5	<0.5
	04/24/07		---	<0.5	<0.5	<0.5	<0.5
GEO-2	09/21/99	95-105'	---	<1.5	1.6	<1	<2
	03/15/02		---	<0.1	0.175	<2	<0.1
OUTSIDE CONTAINMENT CELL UPGRADIENT							
OL-005	12/15/87	3.5-8.5'	---	ND	ND	---	---
	03/19/02		---	<0.1	<1,000	<2	<0.1
	06/02/03		---	<0.5	<0.5	<0.5	<0.5
	04/14/05		---	<1	<1	<1	<2
	04/25/06		0	<0.5	<0.5	<0.5	<0.5
	04/24/07		0	<0.5	<0.5	<0.5	<0.5
MW-12	07/10/02	3.5-13.5'	---	<0.1	<0.1	<2	<0.1
	04/14/05		---	<1	<1	<1	<2
	04/25/06		---	<0.5	<0.5	<0.5	<0.5
	04/24/07		0	<0.5	32	7	<0.5
	04/24/08		0	<0.5	13	0.5	<0.5
	04/08/09		0	<0.5	22	4	<0.5
	03/07/13		0	<1	<1	4.7	<1
	03/21/14		0	<1	<1	<1	<1
MW-214S	04/14/05	10-13'	---	<1	3	<1	<2
	04/25/06		0	<0.5	1	<0.5	<0.5
	04/25/07		0	<0.5	<0.5	<0.5	<0.5
	04/24/08		0	<0.5	<0.5	<0.5	<0.5
	03/07/13		0	<1	<1	<1	<1
	03/21/14		0	<1	<1	<1	<1
	02/21/17		0	<1	<1	<1	<1
	04/25/19		0	<1	<1	<1	<1
	04/28/21		0	<1	<1	<1	<1

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA - PRIMARY VOCs
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

Location Identification	Sampling Date	Screen Interval (feet)	Color	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
				Groundwater Standards			
				5	5	70	2
MW-214M	04/14/05	20-23'	---	<1	3	<1	<2
	04/25/06		0	<0.5	<0.5	<0.5	<0.5
	04/25/07		0	<0.5	<0.5	<0.5	<0.5
	04/24/08		0	<0.5	<0.5	<0.5	<0.5
MW-214D	04/14/05	30-33'	---	<1	<1	<1	<2
	04/25/06		0	<0.5	<0.5	<0.5	<0.5
	04/25/07		0	<0.5	1	<0.5	<0.5
	04/24/08		0	<0.5	<0.5	<0.5	<0.5
	03/07/13		0	<1	<1	<1	<1
	03/21/14		0	<1	<1	<1	<1
	02/21/17		0	<1	<1	<1	<1
	04/25/19		0	<1	<1	<1	<1
	04/28/21		0	<1	<1	<1	<1
SIDE GRADIENT EAST (Vicinity of Aberjona River)							
MW-010S	04/22/02	4-14'	---	<0.1	<0.1	<2	<0.1
	04/14/05		---	<1	<1	<1	<2
	04/25/06		0	<0.5	<0.5	1	<0.5
	04/23/08		0	<0.5	<0.5	0.7	<0.5
	11/16/11		---	<0.5	0.25 (J)	0.45 (J)	<1
MW-010M	04/25/02	40-50'	---	<0.1	0.0779 (J)	<2	<0.1
	04/14/05		---	2	1	<1	<2
	04/25/06		0	<0.5	<0.5	<0.5	<0.5
	04/23/08		0	<0.5	<0.5	<0.5	<0.5
	11/16/11		---	<0.5	<0.5	<0.5	<1
MW-010D	04/25/02	88.5-98.5'	---	0.174	1.4	<2	<0.1
	04/25/06		0	<0.5	<0.5	<0.5	<0.5
	11/16/11		---	<0.5	0.75	0.19 (J)	<1

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA - PRIMARY VOCs
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

Location Identification	Sampling Date	Screen Interval (feet)	Color	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
				Groundwater Standards			
				5	5	70	2
MW-215S	04/13/05	10-13'	---	2,300	6,200	430	<200
MW-215S (DUP-1)	04/24/06		0	2,400	5,400	250	<100
	04/24/06		0	2,400	5,200	260	<100
	09/28/06		0	2,900	5,400	290	<50
	04/25/07		0	1,900	3,500	<250	<250
	04/22/08		0	1,400	1,900	120	<10
	11/13/08		3	<50	<50	<50	<50
	12/11/08		2	360	<3	<3	<3
	03/09/09		2	310	<50	<50	<50
	04/08/09		2	190	<50	<50	<50
	11/03/09		3	<50	<50	<50	<50
	02/15/10		2	<50	<50	<50	<50
	03/23/11		3	<5	<50	<5	<5
MW-215SX	03/23/11		3	<25	<25	<25	<25
MW-215SX	10/18/11		3	<10	<10	<10	<10
MW-215SX	10/18/11		3	62	710	120	<20
MW-215SX	11/21/11		---	<10	<10	<10	<10
MW-215SX	11/21/11		---	<10	<10	<10	<10
MW-215S ASCORBIC ACID	04/17/12		3	<1	<1	<1	<1
	04/17/12		3	<10	<10	<10	<10
	03/07/13		2	<10	<10	<10	<10
MW-215SX	03/07/13		2	<10	<10	<10	<10
MW-215SX	03/21/14		3	<1	<1	<1	<1
MW-215SX	03/21/14		3	<20	<20	<20	<20
	02/21/17		2	<10	<10	<10	<10
	04/25/19		0	<10	<10	<10	<10
	04/28/21		0	<5	<5	<5	<5
MW-215M	04/13/05	20-23'	---	<1	<1	<1	<2
MW-215M (DUP-2)	04/13/05		---	<1	<1	<1	<2
	04/26/06		0	<0.5	<0.5	<0.5	<0.5
	10/30/06		0	<0.5	2	<0.5	<0.5
	04/24/07		0	<0.5	<0.5	<0.5	<0.5
	04/22/08		0	<0.5	<0.5	<0.5	<0.5
	03/23/11		0	<1	100	<1	<1
	10/18/11		0	<1	33	1.5	<1
	08/24/12		0	<1	53	<1	<1
	03/07/13		0	<2	180	2.7	<2
	07/31/13		0	<1	<1	<1	<1
	03/21/14		0	<1	190	51	<1
	10/05/15		4	<10	<10	<10	<10
	02/21/17		0	<1	280	82	<1
	10/26/17		0	<2	200	110	<2
	04/25/19		0	4.6	1,700	1,700	<1
	08/14/19		0	<25	1,600	2,000	<25
	03/19/20		0	<20	1,300	2,000	<20
	08/05/20		0	<25	920	1,500	<50
	04/28/21		0	<20	1,000	2,600	<20
	09/24/21		0	<5	550	680	<5

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA - PRIMARY VOCs
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

Location Identification	Sampling Date	Screen Interval (feet)	Color	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
				Groundwater Standards			
				5	5	70	2
MW-215D	04/13/05	30-33'	---	<1	<1	<1	<2
	09/13/05		0	<0.5	<0.5	<0.5	<0.5
	01/11/06		0	<0.5	1	<0.5	<0.5
	04/26/06		0	<0.5	<0.5	<0.5	<0.5
	07/19/06		0	<0.5	<0.5	<0.5	<0.5
	03/28/07		0	<0.5	<0.5	<0.5	<0.5
	04/22/08		0	<0.5	<0.5	<0.5	<0.5
	02/21/17		0	<1	<1	<1	<1
	04/25/19		2	<1	<1	<1	<1
	04/28/21		0	<1	<1	<1	<1
MW-216S	04/13/05	10-13'	---	<500	20,000	<500	<1,000
	09/13/05		---	740	32,000	<500	<500
	04/26/06		0	<1,000	35,000	<1,000	<1,000
	09/28/06		0	<1,000	48,000	<1,000	<1,000
	04/24/07		0	<1,000	48,000	<1,000	<1,000
	04/22/08		0	<1,000	95,000	<1,000	<1,000
	12/11/08		0	<500	98,000	<500	<500
	03/09/09		0	<500	40,000	<500	<500
	05/07/09		2	<250	26,000	<250	<250
	11/03/09		0	<500	120,000	<500	<500
MW-216SX	02/15/10		0	180	32,000	<100	<100
	02/15/10		0	<500	78,000	<500	<500
MW-216SX	09/01/10		4	<130	<25	<25	<25
	09/01/10		4	<1,300	56,000	<250	<250
	03/23/11		0	<1,000	94,000	<1,000	<1,000
	10/18/11		0	<1,000	26,000	<1,000	<1,000
	04/17/12		0	<50	17,000	<50	<50
	08/24/12		0	<250	20,000	<250	<250
	03/07/13		2	<10	600	<10	<10
	07/31/13		2	<50	170	<50	<50
	03/21/14		2	<10	270	<10	<10
	05/12/15		1	<10	82	<10	<10
	10/05/15		4	<20	<20	<20	<20
	02/21/17		1	<20	<20	<20	<20
	04/25/19		0	<25	33	<25	<25
	04/28/21		0	<25	28	46	<25
	09/24/21		0	<10	40	60	<10
MW-216M	04/13/05	20-23'	---	<1	<1	<1	<2
	04/26/06		0	<0.5	4	<0.5	<0.5
	04/24/07		0	<0.5	10	<0.5	<0.5
	04/23/08		0	<0.5	<0.5	<0.5	<0.5
	03/23/11		0	<0.5	<0.5	<0.5	<0.5
	03/07/13		0	<1	<1	<1	<1
	07/31/13		0	<1	<1	<1	<1
	03/21/14		0	<1	<1	<1	<1
	02/21/17		0	<1	<1	<1	<1
	04/25/19		0	<1	<1	<1	<1
	04/28/21		0	<1	<1	1.9	6.6

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA - PRIMARY VOCs
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

Location Identification	Sampling Date	Screen Interval (feet)	Color	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
				Groundwater Standards			
				5	5	70	2
MW-216D	04/13/05	30-33'	---	<1	<1	<1	<2
	09/13/05		---	<0.5	<0.5	<0.5	<0.5
	01/11/06		---	<0.5	<0.5	<0.5	<0.5
	04/26/06		0	<0.5	<0.5	<0.5	<0.5
	07/19/06		0	<0.5	0.5	<0.5	<0.5
	12/14/06		0	<0.5	1	<0.5	<0.5
	04/24/07		0	<0.5	<0.5	<0.5	<0.5
	04/22/08		0	<0.5	<0.5	<0.5	<0.5
	02/21/17		0	<1	4.2	<1	<1
	04/25/19		0	<1	2.9	<1	<1
	04/28/21		0	<1	12	<1	<1
OUTSIDE CONTAINMENT CELL SIDE GRADIENT WEST (Adjacent to Sewer Line Easement)							
GEO-5	06/24/03	2-12'	---	280	3,300	<50	<50
GEO-6	06/24/03	11-16'	---	<0.5	<0.5	<0.5	<0.5
	04/13/05		---	<1	<1	<1	<2
	04/24/06		0	<0.5	<0.5	<0.5	<0.5
	10/30/06		0	<0.5	2	<0.5	<0.5
	04/24/07		0	<0.5	<0.5	<0.5	<0.5
	06/18/07		---	<0.5	<0.5	<0.5	<0.5
GEO-7	06/24/03	6-16'	---	2	8	<0.5	<0.5
	04/13/05		---	<1	4	<1	<2
	04/24/06		0	<0.5	1	<0.5	<0.5
	09/28/06		0	<0.5	2	<0.5	<0.5
	04/26/07		0	<0.5	<0.5	<0.5	<0.5
	06/18/07		---	<0.5	<0.5	<0.5	<0.5
MW-13	07/09/02	7-17'	---	410	780	1,500	<2
	04/22/03		---	650	280	780	<10
	06/02/03		---	430	250	1,300	<25
	04/14/05		---	470	160	340	<20
	04/26/06		0	1,500	1,400	350	<50
	09/28/06		---	1,100	2,200	480	<25
	04/26/07		---	1,400	4,100	380	<50
	06/18/07		---	1,100	7,100	710	34
	11/05/07		---	560	6,400	260	<100
	04/22/08		0	730	6,000	420	<50
	04/07/09		0	530	6,300	440	<50
MW-13X	02/15/10	3	3	<10	<10	<10	<10
	02/15/10		3	<3	<3	<3	<3
	03/23/11		3	<0.5	<0.5	<0.5	<0.5
MW-13X	03/23/11	3	3	<25	<25	<25	<25
MW-13X	10/18/11	3	3	<12	<12	<12	<12
MW-13X	10/18/11	3	3	<25	<25	<25	<25
MW-13 ASCORBIC ACID	04/17/12	3	3	<20	<20	<20	<20
	04/17/12	3	3	<20	<20	<20	<20
	03/07/13	3	3	<10	<10	<10	<10
MW-13X	03/07/13	3	3	<10	<10	<10	<10
	03/21/14	3	3	<10	<10	<10	<10
MW-13X	03/21/14	3	3	<10	<10	<10	<10

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA - PRIMARY VOCs
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

Location Identification	Sampling Date	Screen Interval (feet)	Color	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
				Groundwater Standards			
				5	5	70	2
MW-212M	04/14/05	20-23'	---	<1	<1	<1	<2
	04/26/06		0	<0.5	3	<0.5	<0.5
	04/25/07		0	<0.5	7	2	<0.5
	03/07/13		0	<1	<1	<1	<1
	03/21/14		0	<1	<1	<1	<1
	02/21/17		0	<1	<1	<1	<1
	04/25/19		0	<1	<1	<1	<1
	04/28/21		0	<1	<1	<1	<1
MW-212D	04/14/05	30-33'	---	<1	<1	<1	<2
MW-212D (DUP-6)	04/14/05		---	<1	<1	<1	<2
	04/26/06		0	<0.5	<0.5	<0.5	<0.5
	04/26/07		0	<0.5	<0.5	<0.5	<0.5
	04/08/09		0	<0.5	<0.5	<0.5	<0.5
	02/21/17		0	<1	<1	1	<1
	04/25/19		0	<1	14	76	<1
	04/28/21		0	<1	17	80	<1
MW-213S	04/13/05	10-13'	---	240	70	140	<10
MW-213S (DUP-1)	04/13/05		---	230	70	140	<10
	04/24/06		0	120	120	47	<25
	03/28/07		0	330	900	150	<10
	06/18/07		---	400	2,000	200	<10
	04/22/08		0	280	2,100	110	<25
	04/08/09		0	400	6,000	81	<50
	09/01/10		2	210	<25	<25	<25
MW-213SX	09/01/10		2	640	13,000	120	<25
	03/23/11	10-13'	0	140	2,000	51	<25
MW-213S (DUP-1)	03/23/11		0	140	2,000 (D)	50	<10
MW-213SX	03/23/11		0	150	2,200	53	<25
	10/18/11		0	72	620	140	<40
MW-213SX	10/18/11		0	<10	<10	<10	<10
MW-213 ASCORBIC ACID	04/17/12		0	88	470	36	<10
	04/17/12		0	82	500	34	<5
	08/24/12		3	120	1,400	36	<20
MW-213SX	08/24/12		3	<5	<5	<5	<5
	03/07/13	10-13'	1	15	59	<10	<10
MW-213SX	03/07/13		1	<10	<10	<10	<10
	07/31/13		2	<20	<20	<20	<20
	03/21/14		0	<10	18	<10	<10
MW-213SX	03/21/14		0	<10	17	<10	<10
	10/05/15		0	16	47	190	<10
	02/21/17		0	<25	270	98	<25
	10/26/17		0	<10	170	240	<10
	03/23/18		0	9.8	260	<5	<5
	04/25/19	10-13'	0	94	2,000	140	<20
	03/19/20		0	110	1,400	110	<10
	08/05/20		0	75	1,200	280	<40
	04/28/21		0	85	990	220	<5
	09/24/21		0	46	340	180	2.8

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA - PRIMARY VOCs
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

Location Identification	Sampling Date	Screen Interval (feet)	Color	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
				Groundwater Standards			
				5	5	70	2
MW-213M	04/13/05	20-23'	---	<1	<1	<1	<2
	04/24/06		---	<0.5	<0.5	<0.5	<0.5
	04/24/07		0	<0.5	<0.5	<0.5	<0.5
	06/18/07		0	<0.5	<0.5	<0.5	<0.5
	03/23/11		0	<0.5	6	3	<0.5
	10/18/11		0	<1	1.9	1.2	<1
	03/07/13		0	<1	3.6	2.4	<1
	07/31/13		0	<1	4.2	3.8	<1
	03/21/14		0	<1	2.6	1.5	<1
	02/21/17		0	<1	6.2	11	<1
	04/25/19		0	<1	11	54	<1
	04/28/21		0	<1	14	130	<1
MW-213D	04/13/05	30-33'	---	<1	<1	<1	<2
	04/24/06		0	<0.5	<0.5	<0.5	<0.5
	03/28/07		0	<0.5	<0.5	<0.5	<0.5
	02/21/17		0	<1	<1	<1	<1
	04/25/19		0	<1	<1	<1	<1
	04/28/21		0	<1	<1	<1	<1
MW-220M	04/14/05	20-23'	---	<1	<1	<1	<2
	04/26/06		0	<1	<1	<1	<1
	04/27/07		0	<0.5	<0.5	<0.5	<0.5
	02/21/17		0	<1	<1	6.9	<1
	04/28/21		0	<1	<1	3.5	<1
MW-220D	04/13/05	30-33'	---	<1	<1	<1	<2
	04/26/06		0	<0.5	<0.5	<0.5	<0.5
	09/28/06		0	<0.5	<0.5	<0.5	<0.5
	04/26/07		0	<0.5	<0.5	<0.5	<0.5
	02/21/17		0	<1	<1	<1	<1
	04/25/19		0	<1	<1	<1	<1
	04/28/21		0	<1	<1	<1	<1
SIDE GRADIENT WEST (Adjacent to Sewer Line Easement)							
GEO-8 (MW-301)	06/18/07	15-20'	---	<0.5	<0.5	<0.5	<0.5
	04/23/08		0	<0.5	<0.5	<0.5	<0.5
GEO-9 (MW-302)	06/18/07	15-20'	---	<0.5	<0.5	<0.5	<0.5
	04/24/08		0	<0.5	<0.5	<0.5	<0.5
DOWNGRADIENT							
MW-011S	04/26/02	4-14'	---	<0.1	0.13	<2	0.264
	04/14/05		---	2	5	13	<2
	04/25/06		0	3	8	26	2
	04/23/08		0	0.5	2	12	1
	11/16/11		---	<0.5	2.1	4.7	1.2
MW-11S	03/23/18		0	<1	1.4	4.4	<1
MW-011M	04/26/02	40-50'	---	7	120	17	<2
	04/14/05		---	<1	19	2	<2
	04/25/06		0	<0.5	4	0.8	<0.5
	04/23/08		0	<0.5	2	0.6	<0.5
	11/16/11		---	<0.5	0.80	0.30 (J)	<1
	03/23/18		---	<1	<1	<1	<1
MW-011D	04/26/02	81-91'	---	<0.1	<0.1	<2	<0.1
	04/25/06		0	<0.5	<0.5	<0.5	<0.5
	04/23/08		0	<0.5	<0.5	<0.5	<0.5
	11/16/11		---	<0.5	<0.5	<0.5	<1

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA - PRIMARY VOCs
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

Location Identification	Sampling Date	Screen Interval (feet)	Color	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
				Groundwater Standards			
				5	5	70	2
MW-014S	07/10/02	5-15'	---	25	180	670	190
	04/22/03		---	1	6	61	19
	06/02/03		---	2	15	62	16
	04/13/05		---	3	6	98	16
	09/28/06		1	120	810	110	<10
	04/24/07		0	39	25	29	6
	06/18/07		---	51	29	33	7
	04/23/08		0	68	180	210	31
	04/07/09		0	11	27	280	30
	10/18/11		0	7.5	45	92	3.2
	03/07/13		1	4.2	13	80	5.6
	07/31/13		0	<50	610	2,300	79
	03/21/14		0	3.3	7.7	110	9.4
	09/29/14		2	1.6	33	160	<1
	10/05/15		0	<2	10	200	15
	03/19/20		0	2.2	6.2	48	4.8
MW-014M	07/10/02	20-30'	---	<0.1	<0.1	<2	<0.1
	04/13/05		---	<1	<1	<1	<2
	04/24/06		0	<0.5	<0.5	<0.5	<0.5
	10/30/06		0	<0.5	<0.5	<0.5	<0.5
	04/24/07		0	<0.5	<0.5	<0.5	<0.5
	03/07/13		0	<1	<1	<1	<1
	03/21/14		0	<1	<1	<1	<1
MW-014D MW-014D (DUP4)	04/13/05	37-40'	---	<1	<1	<1	<2
	04/13/05		---	<1	<1	<1	<2
	04/25/06		0	<0.5	0.6	<0.5	<0.5
	12/14/06		0	<0.5	0.5	<0.5	<0.5
	04/24/07		0	<0.5	2	<0.5	<0.5
	04/24/08		0	<0.5	<0.5	<0.5	<0.5
	04/07/09		0	<0.5	<0.5	<0.5	<0.5
	03/07/13		0	<1	<1	<1	<1
	03/21/14		0	<1	<1	<1	<1
MW-217S MW-217S (DUP-1) MW-217S (DUP-1)	04/13/05	10-13'	---	<5	190	400	<10
	04/24/06		0	7	69	80	<5
	04/24/07		0	<0.5	3	2	<0.5
	04/22/08		0	12	83	520	<5
	04/22/08		0	12	88	530	<5
	04/08/09		0	5	190	550	<5
	04/08/09		0	<5	170	510	<5
	09/01/10		0	<130	840	2,200	<25
	03/23/11		0	0.8	31	25	2
	10/18/11		0	<1	<1	5.4	<1
	03/07/13		0	<1	1	2.4	<1
	03/21/14		0	<1	<1	<1	<1
	02/21/17		0	<1	<1	<1	<1
	04/25/19		0	<1	<1	<1	<1
	04/28/21		0	<1	1.8	1.8	<1

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA - PRIMARY VOCs
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

Location Identification	Sampling Date	Screen Interval (feet)	Color	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
				Groundwater Standards			
				5	5	70	2
MW-217M	04/13/05	25-28'	---	<1	<1	<1	<2
	04/24/06		0	<0.5	<0.5	<0.5	<0.5
	04/24/07		0	<0.5	<0.5	<0.5	<0.5
	04/23/08		2	<25	<25	<25	<25
	04/08/09		2	<0.5	<0.5	<0.5	<0.5
	03/23/11		0	<0.5	25	19	<0.5
MW-217MX	03/23/11		0	<0.5	26	20	<0.5
	10/18/11		0	<1	110	100	1.7
MW-217MX	10/18/11		0	<1	110	100	1.9
MW-217M ASCORBIC ACID	04/17/12		---	<5	420	320	10
MW-217M HCL	04/17/12		---	<5	400	320	10
MW-217MX	08/24/12		0	<10	610	500	16
MW-217MX	08/24/12		0	<10	590	470	16
MW-217MX	03/07/13		0	<10	780	670	25
MW-217MX	03/07/13		0	<10	540	440	17
DUP-1	03/07/13		0	<20	580	460	<20
	07/31/13		0	<20	1,200	690	32
	03/21/14		0	<10	1,600	530	34
MW-217MX	03/21/14		0	<10	1,500	490	28
MW-217M-DUP	03/21/14		0	<10	1,400	490	30
	09/29/14		2	4.2	260	23	<2
	05/12/15		0	<50	4,000	430	<50
	10/05/15		3	6.1	220	7.3	<2
	04/13/16		---	<100	4,500	380	<100
	08/10/16		3	8.4	680	14	<2.5
	08/25/16		3	<25	1,300	31	<25
	10/18/16		0	<20	1,500	98	<20
	02/21/17		1	<50	7,800	610	<50
	05/10/17		2	<25	1,900	140	<25
	06/29/17		1	<2,600	320,000	27,000	<2,600
	07/27/17		0	27	4,800	380	28
	10/26/17		0	<20	2,700	240	<20
	02/27/18		0	<1	<1	<1	<1
	03/23/18		0	<50	5,000	380	<50
	06/22/18		0	57	7,700	960	<50
	06/22/18		0	<50	6,200	590	<50
	06/22/18		0	<50	5,700	580	<50
	04/25/19		0	62	7,300	1,800	97
	08/14/19		0	<50	4,800	1,200	64
	03/19/20		4	<5	<5	<5	<5
	08/05/20		3	2.1	140	4.8	<4
	11/18/20		3	<1	<1	<1	<1
	04/28/21		4	<1	<1	<1	<1
	09/24/21		4	<2.5	<2.5	<2.5	<2.5
MW-217D	04/13/05	37-40'	---	<1	<1	<1	<2
	09/13/05		0	<0.5	<0.5	<0.5	<0.5
	01/11/06		0	<0.5	<0.5	<0.5	<0.5
	04/24/06		0	<0.5	<0.5	<0.5	<0.5
	07/19/06		0	<0.5	<0.5	<0.5	<0.5
	03/28/07		0	<0.5	<0.5	<0.5	<0.5
	03/21/14		0	<1	<1	<1	<1
	02/21/17		0	<1	<1	<1	<1
	04/25/19		0	<1	<1	<1	<1
	04/28/21		0	<1	<1	<1	<1

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA - PRIMARY VOCs
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

Location Identification	Sampling Date	Screen Interval (feet)	Color	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
				Groundwater Standards			
				5	5	70	2
MW-218S	04/13/05	10-13'	---	<1	27	93	5
	04/25/06		0	<1	1	44	6
	04/25/06		0	<1	1	45	6
	04/25/07		0	<0.5	3	10	3
	04/23/08		0	<0.5	4	9	3
	04/08/09		0	<0.5	0.5	1	<0.5
	03/21/14		0	<1	<1	1.6	<1
	02/21/17		0	<1	<1	1.2	<1
	04/25/19		0	<1	<1	<1	<1
			0	<1	<1	<1	<1
MW-218M	04/13/05	25-28'	---	<1	<1	<1	<2
	04/26/06		0	<0.5	4	<0.5	<0.5
	04/25/07		0	<0.5	1	<0.5	<0.5
	04/23/08		0	<0.5	0.8	<0.5	<0.5
	04/08/09		0	<0.5	<0.5	<0.5	<0.5
	03/07/13		0	<1	<1	<1	<1
	03/21/14		0	<1	<1	<1	<1
	02/21/17		0	<1	1	<1	<1
	10/12/18		0	<1	5.4	1.4	<1
	04/25/19		0	<1	8.9	1.4	<1
	11/18/20		0	<1	20	1.6	<1
	04/28/21		0	<1	14	1.2	<1
	09/24/21		0	<1	28	1.8	<1
MW-218D MW-218D (DUP-3)	04/13/05	37-40'	---	<1	<1	<1	<2
	04/13/05		---	<1	<1	<1	<2
	04/26/06		0	<0.5	1	<0.5	<0.5
	12/14/06		0	<0.5	<1	<0.5	<0.5
	04/26/07		1	<0.5	<0.5	<0.5	<0.5
	02/21/17		0	<1	<1	<1	<1
	04/25/19		0	<1	<1	<1	<1
	04/28/21		0	<1	<1	<1	<1
MW-219S	04/13/05	10-13'	---	<1	2	33	5
	04/25/06		0	<0.5	<0.5	<0.5	<0.5
	04/25/07		0	<0.5	<0.5	<0.5	<0.5
	04/23/08		0	<0.5	<0.5	<0.5	<0.5
	04/07/09		0	<0.5	<0.5	<0.5	<0.5
	03/07/13		0	<1	<1	<1	<1
	03/21/14		0	<1	<1	<1	<1
	02/21/17		0	<1	1.6	2.8	<1
	04/25/19		0	<1	<1	<1	<1
	04/28/21		0	<1	<1	<1	<1
MW-219M	04/13/05	25-28'	---	<1	6	63	12
	04/25/06		0	<5	11	210	12
	04/24/07		0	<1	6	56	6
	04/23/08		0	1	4	39	8
	04/08/09		0	0.7	2	16	3
	03/07/13		0	<1	<1	7.9	1.8
	03/21/14		0	<1	<1	9.5	2.3
	02/21/17		0	<1	<1	<1	<1
	10/12/18		0	<1	1.6	3.4	<1
	04/25/19		0	<1	<1	3.3	<1
	11/18/20		0	<1	4.5	16	<1
	04/28/21		0	<1	<1	2.6	<1

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA - PRIMARY VOCs
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

Location Identification	Sampling Date	Screen Interval (feet)	Color	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
				Groundwater Standards			
				5	5	70	2
MW-219D	04/13/05	37-40'	---	<1	<1	<1	<2
	09/13/05			<0.5	<0.5	<0.5	<0.5
	01/11/06			<0.5	<0.5	<0.5	<0.5
	04/25/06			<0.5	<0.5	<0.5	<0.5
	07/19/06			<0.5	<0.5	<0.5	<0.5
	03/28/07			<0.5	<.5	<0.5	<0.5
	04/24/07			<0.5	<0.5	<0.5	<0.5
	02/21/17			<1	<1	<1	<1
	04/25/19			<1	<1	<1	<1
	04/28/21			<1	<1	<1	<1

NOTES:

1. Values in micrograms per liter ($\mu\text{g}/\text{L}$).
2. Bold exceeds laboratory detection limits.
3. Shaded concentrations exceed applicable Groundwater Standard.
4. Groundwater Standards are ROD ICLs or MCP Method 1/GW-1 Risk Standards.
5. (J) = estimated concentration.
6. (UJ) = estimated non-detect.
7. ND = Not Detected: detection limit unknown.
8. --- = Not analyzed
9. Sodium permanganate injected between September 1, 2005 and November 16, 2018.
10. D = listed value obtained from second (diluted) analytical run.
11. e = Concentration exceeded calibration range for the analyte.
12. On March 28, 2007 OL-2M was mislabeled as MW-OL-2M on the chain of custody submitted to the lab.

TABLE 2
SUMMARY OF SODIUM PERMANGANATE INJECTION EVENTS
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

Event	Method	Approximate Strength (Percent Solution)	Volume (Gallons)						TOTAL	
			Trenches	Injection Wells	DPs	East Side DPs	SW Corner DPs	MW Wells		
2005	Gravity	40%							8,464	
September 1	Trenches	40%	1,059	---	---	---	---	---	1,059	
September 15	Trenches	40%	1,077	---	---	---	---	---	1,077	
September 29	Injection Wells	40%	244	914	---	---	---	---	1,158	
October 13	Trenches	40%	1,093	---	---	---	---	---	1,093	
November 3	Injection Wells	40%	26	975	---	---	---	---	1,001	
November 10	Trenches	40%	1,010	---	---	---	---	---	1,010	
November 22	Injection Wells	40%	62	906	---	---	---	---	968	
December 16	Injection Wells and Trenches	40%	401	698	---	---	---	---	1,099	
2007	Pressure and Gravity	10 to 20%							580	
September 6	K-Series Injection Wells	10 to 20%	---	384	---	---	---	---	384	
September 6	Injection Wells	20%	---	196	---	---	---	---	196	
2008	Direct Push and Gravity	1 to 5%							16,413	
May 20 to 22	Direct Push (DP) Locations, Injection Wells, and Trenches	5%	330	609	2,338	---	---	---	3,277	
October 13 and 15	Direct Push Locations East of Treatment Cell	1%	---	---	---	970	---	---	970	
October 15 to 17	Direct Push Locations, Injection Wells, and Trenches	2 to 4%	913	21	1,832	---	---	---	2,766	
November 10 to 14	Direct Push Locations, Injection Wells, and Trenches	2 to 3%	412	85	4,472	---	---	---	4,969	
December 8 to 11	Direct Push Locations and Trenches	2 to 3%	351	---	4,080	---	---	---	4,431	
2009	Direct Push and Gravity	0.5 to 3%							13,432	
April 21 to 23	Direct Push Locations and Trenches	2 to 3%	102	---	2,496	1,614	---	---	4,212	
May 19 to 22	Direct Push Locations, Injection Wells, and Trenches	2 to 3%	612	37	4,110	---	---	---	4,759	
June 24	Injection Wells and Trenches	0.5 to 3%	240	45	---	---	---	---	285	
November 16 to 20 and 23	Direct Push Locations, Injection Wells, and Trenches	2 to 3%	124	65	2,042	1,296	649	---	4,176	
2010	Direct Push and Gravity	0.5 to 1%							34,326	
June 7 to 11	Direct Push Locations, Injection Wells, and Trenches	0.5 to 1%	4,410	576	3,940	2,235	1,763	---	12,924	
July 29	Injection Wells and Trenches	0.5%	150	---	---	---	---	---	150	
November 1 to 5 and 8 to 10	Direct Push Locations, Injection Wells, and Trenches	0.5%	9,128	10	7,368	2,620	2,126	---	21,252	
2011	Direct Push and Gravity	0.5 to 1%							39,396	
June 13 to 17, 20, and 21	Direct Push Locations, Injection Wells, and Trenches	0.5 to 1%	8,917	191	6,860	2,511	2,156	---	20,635	
November 15 to 18, 21 and 22	Direct Push Locations, Injection Wells, and Trenches	0.5 to 1%	8,380	20	7,827	1,507	1,027	---	18,761	
2012	Direct Push and Gravity	1%							27,571	
June 25 to 29 and July 2 and 3	Direct Push Locations, Injection Wells, and Trenches	1%	835	5,631	5,196	3,305	1,302	---	16,269	
November 12 to 16	Direct Push Locations, Injection Wells, and Trenches	1%	3,880	365	1,149	5,908	---	---	11,302	
2013	Direct Push and Gravity	1%							9,512	
November 18 to 23	Direct Push Locations, Injection Wells, and Trenches	1%	5,367	1,112	2,330	703	---	---	9,512	
2014	Direct Push and Gravity	5%							11,845	
July 11 and 15	Monitoring Wells, Injection Wells, and Trenches	5%	20	17	---	---	---	233	270	
November 10 to 13	Direct Push Locations, Injection Wells, and Trenches	1%	5,705	26	4,100	1,744	---	---	11,575	
2015	Direct Push and Gravity	2% to 20%							916	
July 14 and 15	Monitoring Wells and Injection Wells	4% to 20%	---	65	---	---	---	101	166	
November 16 to 18	Direct Push Locations, Injection Wells and Trenches	2% to 4%	60	390	300	---	---	---	750	
2016	Injection Wells - Gravity	2% to 4%							1,265	
July 20 to 21	Injection Wells	2% to 4%	45	350	---	---	---	---	395	
December 14 to 15	Injection Wells, Shallow Auger Holes and Trenches	2% to 4%	120	450	300	---	---	---	870	
2017	Injection Wells - Gravity	1% to 5%							2,985	
April 18 to 19	Injection Wells	1% to 5%	100	1,110	---	---	---	---	1,210	
August 30 to 31	Injection Wells	4%	100	600	---	---	---	---	700	
November 28 to 29	Injection Wells, Shallow Auger Holes and Trenches	2% to 5%	100	975	---	---	---	---	1,075	
2018	Direct Push	2% to 4%							4,240	
November 15 to 16	Direct Push Locations and Trenches	2% to 4%	1,000	---	3,240	---	---	---	4,240	
2019	Direct Push and Gravity	2% to 4%							3,075	
December 17 to 18	Direct Push Locations, Injection Wells and Trenches	2% and Rinsate	100	75	2,900	---	---	---	3,075	
2020	Direct Push and Gravity	2% to 4%							2,500	
November 17 to 18	Direct Push Locations	2% to 4%	---	---	2,500	---	---	---	2,500	
TOTALS				56,473	16,897	69,380	24,413	9,023	334	176,520

TABLE 3
SUMMARY OF TCE CONCENTRATIONS - MW-200 SERIES PERFORMANCE MONITORING WELLS
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

SHALLOW PERFORMANCE MONITORING WELLS - INSIDE TREATMENT CELL							
Well ID	Limited Screen Interval (feet BGS)	Max TCE Concentration (ug/l)	Most Recent TCE Concentration (ug/l)	Most Recent Sampling Date	% Reduction	Observation/Status	Remedial Response
MW-200S	6.5-9.5	14,000	190	4/28/2021	>99	Non-detect TCE concentrations from April 2009 to February 2017, recent detects in April 2019 and 2021.	Periodic monitoring
MW-201S	6.5-9.5	950	86	9/24/2021	91	Sustained decrease in TCE bewteen 2008 and 2014, rebound observed in 2017, decreasing trend through April 2019, with rebound in April 2021 that decreased in September 2021.	Periodic monitoring
MW-202S	6.5-9.5	6,200	<25	4/28/2021	>99	Decreasing TCE concentration trend since 2014.	Periodic monitoring
MW-203S	3-6	500	8.8	4/28/2021	>99	Intermittent elevated TCE concentration with most concenctrations below 5 ppb; below 10 ppb since 2016.	Periodic monitoring
MW-204S	7-10	2,400	<5	4/28/2021	>99	Non-detect TCE concentrations since 2009.	Periodic monitoring
MW-205S	4-7	12	2.9	4/28/2021	76	TCE concentration below 5 ppb since April 2008.	Periodic monitoring
MW-206S	4-7	8,200	<1	4/28/2021	>99	Non-detect TCE concentrations since April 2008; 1 ppb dected in 2019.	Periodic monitoring
MW-207S	6-9	3,700	1,800	9/24/2021	51	Fluctuating TCE concentrations from 100s to 1,000s of ppb.	Focus area for future treatment
MW-208S	4-7	1,100	1.4	4/28/2021	100	Non-detect TCE concentration since 2008, with single digit concentration of TCE detected from 2017 to 2021.	Periodic monitoring
MW-209S	7-10	520	210	9/24/2021	60	Fluctuating TCE concentrations in low 100s of ppb.	Periodic monitoring
MW-210S	7-10	2,400	210	9/24/2021	91	Sustained decrease in TCE concentration between 2008 and 2013, with rebound observed in 2013 and 2017; non detect in 2019. In 2021, rebound was observed (up to 210 ppb).	Periodic monitoring
MW-211S	6.5-9.5	39	<1	2/21/2017	99	Sustained decrease in TCE since 2007, well destroyed in late 2017.	Periodic monitoring
			89	AVERAGE % REDUCTION			

TABLE 3
SUMMARY OF TCE CONCENTRATIONS - MW-200 SERIES PERFORMANCE MONITORING WELLS
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

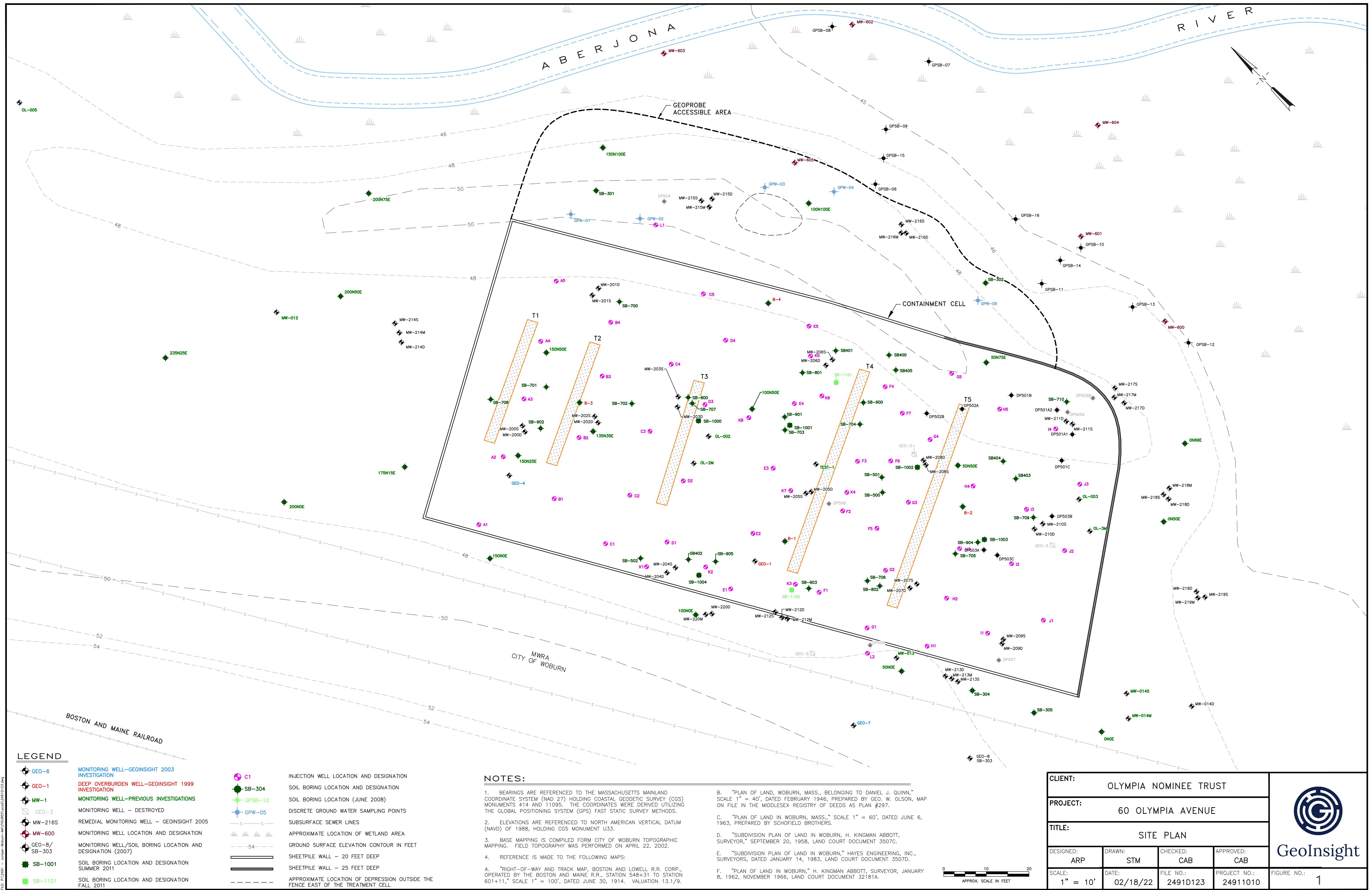
DEEP PERFORMANCE MONITORING WELLS - INSIDE TREATMENT CELL							
Well ID	Limited Screen Interval (feet BGS)	Max TCE Concentration (ug/l)	Most Recent TCE Concentration (ug/l)	Most Recent Sampling Date	% Reduction	Observation/Status	Remedial Response
MW-200D	14-17	870,000	<200	4/28/2021	>99	Non-detect TCE concentrations since April 2009, historical DNAPL at this location. Sustained residual permanganate in this area.	Periodic monitoring
MW-201D	14-17	18,000	170	9/24/2021	>99	Fluctuating TCE concentrations from 10s to 1,000s of ppb, with overall decreasing trend.	Periodic monitoring
MW-202D	14-17	89,000	<200	4/28/2021	>99	Non-detect TCE concentrations since April 2009.	Periodic monitoring
MW-203D	14-17	47,000	<10	4/25/2019	>99	Overall decreasing trend in TCE, non-detect TCE since 2015.	Periodic monitoring
MW-204D	14-17	460,000	<100	4/28/2021	>99	Sustained decrease in TCE since 2009, with intermittent rebound in 2011.	Periodic monitoring
MW-205D	14-17	120,000	3,600	9/24/2021	97	Sustained decrease in TCE between 2009 and 2017 with visibly high residual permanganate concentrations, detection of TCE above 1,000 ppb in April 2019 with decreasing concentrations through March 2020 with a rebound up to 7,400 in April 2021.	Focus area for future treatment
MW-206D	14-17	100,000	2,200	9/24/2021	98	Stable decreasing trend in TCE concentration since 2010 with recent increase starting in August 2020 that is now up to 2,200 September 2021.	Focus area for future treatment
MW-207D	14-17	8,100	<50	4/28/2021	>99	Sustained decrease in TCE concentrations since April 2009.	Periodic monitoring
MW-208D	14-17	170,000	48	9/24/2021	>99	Stable decreasing trend in TCE since 2010.	Periodic monitoring
MW-209D	14-17	1,600	180	9/24/2021	89	TCE concentration decreased until 2011, with rebound in the 10s of ppb between 2014 and 2019. In 2021, rebound occurred in low 100s of ppb.	Periodic monitoring
MW-210D	14-17	650	<100	4/28/2021	92	Non-detect TCE concentrations since April 2009. Increasing trend of breakdown products since 2017.	Periodic monitoring
MW-211D	14-17	3,300	20	9/24/2021	>99	Fluctuating TCE concentrations in the 100s ppb through 2019, with stable low concentrations in 2020. Single digit ppb of TCE in April 2021.	Periodic monitoring
MW-212S	10-13	3,600	4,900	9/24/2021	-36	Highest detection in April 2021 (3,600 ppb), PCE also present in 10s of ppb.	Focus area for future treatment
			88	AVERAGE % REDUCTION			

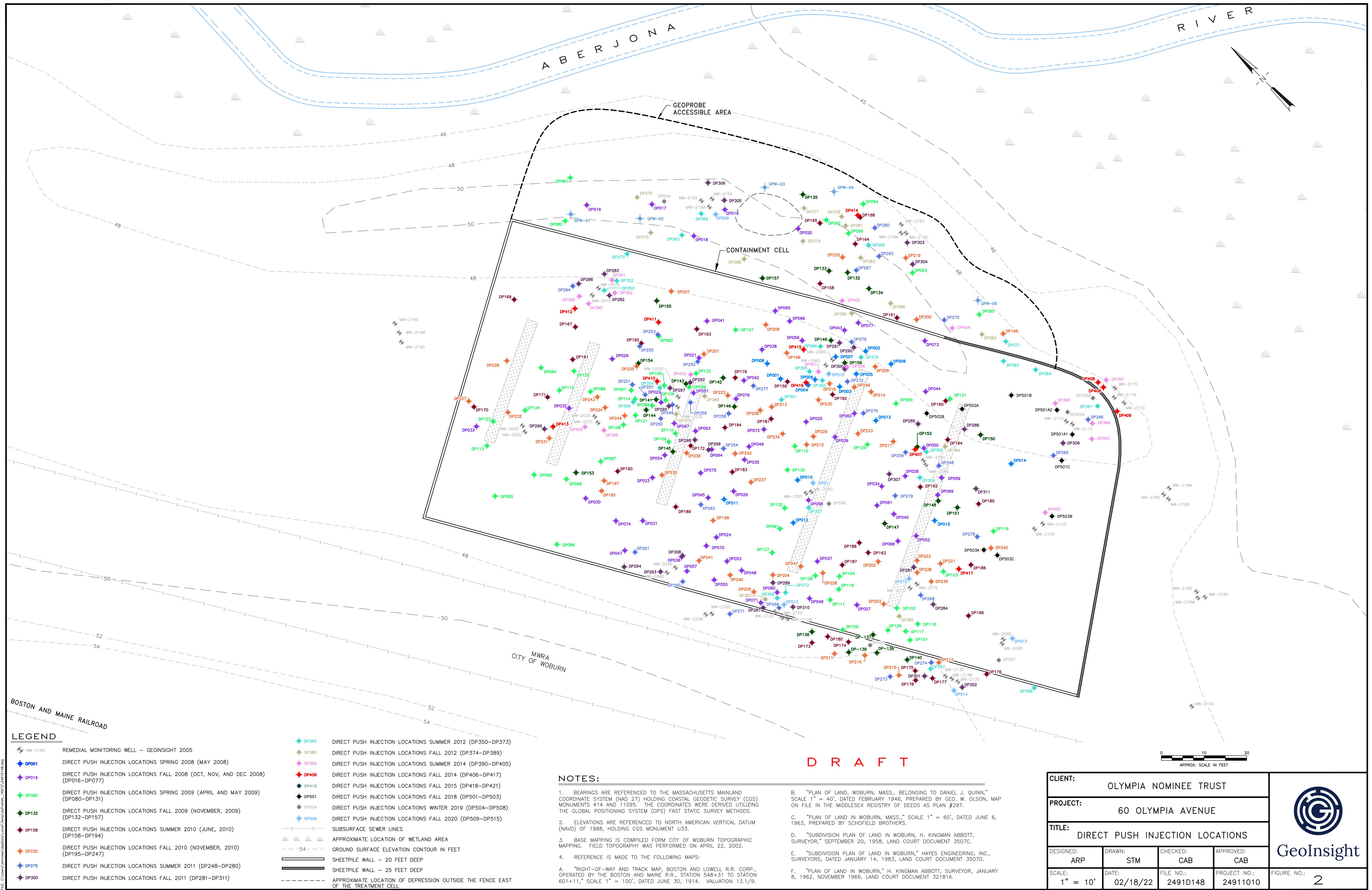
TABLE 3
SUMMARY OF TCE CONCENTRATIONS - MW-200 SERIES PERFORMANCE MONITORING WELLS
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

SHALLOW EAST SIDE PERFORMANCE MONITORING WELLS - OUTSIDE TREATMENT CELL							
Well ID	Limited Screen Interval (feet BGS)	Max TCE Concentration (ug/l)	Most Recent TCE Concentration (ug/l)	Most Recent Sampling Date	% Reduction	Observation/Status	Remedial Response
MW-215S	10-13	6,200	<5	4/28/201	>99	Overall decreasing trend, non-detect TCE since October 2011.	
MW-216S	10-13	120,000	40	9/24/2021	>99	Overall decreasing trend, 100s of ppb since 2013 decreasing to double digits in 2015.	
MW-217S	10-13	840	<1.0	2/21/2017	>99	Overall reduced concentrations of TCE since 2011.	
						>99	AVERAGE % REDUCTION
MID DEPTH EAST SIDE PERFORMANCE MONITORING WELLS - OUTSIDE TREATMENT CELL							
Well ID	Limited Screen Interval (feet BGS)	Max TCE Concentration (ug/l)	Most Recent TCE Concentration (ug/l)	Most Recent Sampling Date	% Reduction	Observation/Status	Remedial Response
MW-215M	20-23	1,700	550	9/24/2021	68	Fluctuating TCE concentrations, increasing trend in 100s of ppb from 2011 to 2017, with 100s to 1,000s ppb of TCE from 2019 to 2021.	Focus area for future treatment
MW-216M	20-23	10	<1.0	4/28/2021	95	Non-detect concentrations of TCE since April 2007, breakdown products detected in April 2021 at single digits ppb.	Periodic monitoring
MW-217M	25-28	320,000	<2.5	9/24/2021	>99	Increasing TCE concentration trend since 2011, peaking in 2017; fluctuating TCE concentrations in the mid-1,000s ppb, injection in December 2019 and permanganate present since March 2020. Non-detect in November 2020 and April 2021.	Periodic monitoring
						88	AVERAGE % REDUCTION
SOUTHWEST CORNER PERFORMANCE MONITORING WELLS - OUTSIDE TREATMENT CELL							
Well ID	Limited Screen Interval (feet BGS)	Max TCE Concentration (ug/l)	Most Recent TCE Concentration (ug/l)	Most Recent Sampling Date	% Reduction	Injection Status	Remedial Response
MW-13	7-17	7,100	<10	3/21/2014	>99	Non-detect TCE concentrations between 2009 and 2014, permanganate present	Periodic monitoring
MW-213S	10-13	6,000	340	9/24/2021	94	Fluctuating TCE concentration with decreasing trend through 2013, increase to 2,000 ppb in April 2019 followed by decreasing trend in 2020 and 2021.	Focus area for future treatment
MW-014S	5-15	810	6.2	3/19/2020	99	Initial fluctuation of TCE in 10s to 100s of ppb, and less than 50 ppb since 2013.	Periodic monitoring
						98	AVERAGE % REDUCTION

NOTES:

1. Values in micrograms per liter (ug/l).
2. TCE = Trichloroethene.
3. ND = Not detected above laboratory practical quantitation limits.
4. <25 = not detected in sample at concentration above reporting limit.
5. BGS = Below ground surface.
6. DNAPL = dense non-aqueous phase liquid.
7. % Reduction calculated using the Max TCE Concentration and the Most Recent TCE Concentration.
8. Updated September 2021.

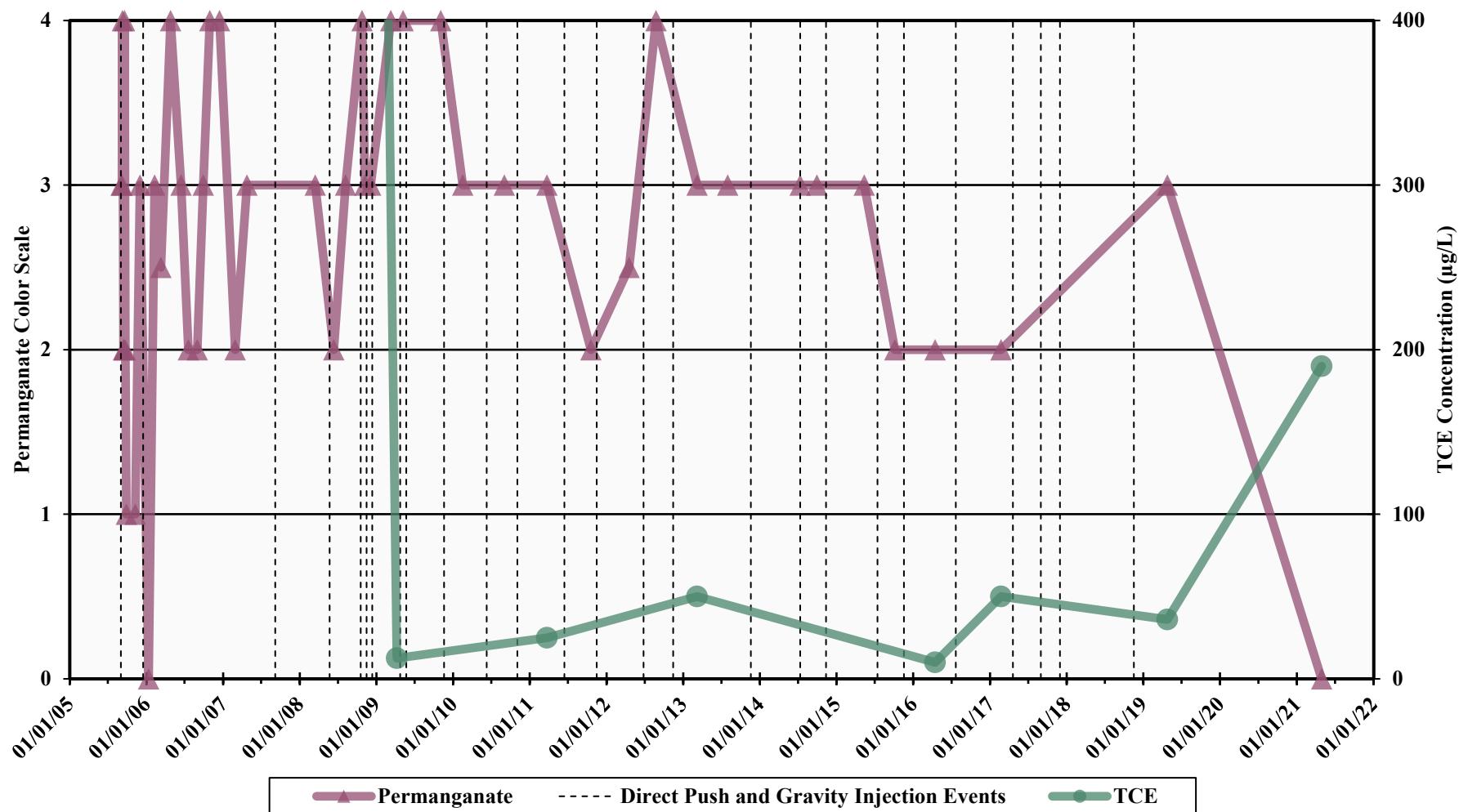






ATTACHMENT A
Sodium Permanganate and TCE Concentration vs. Time Plots

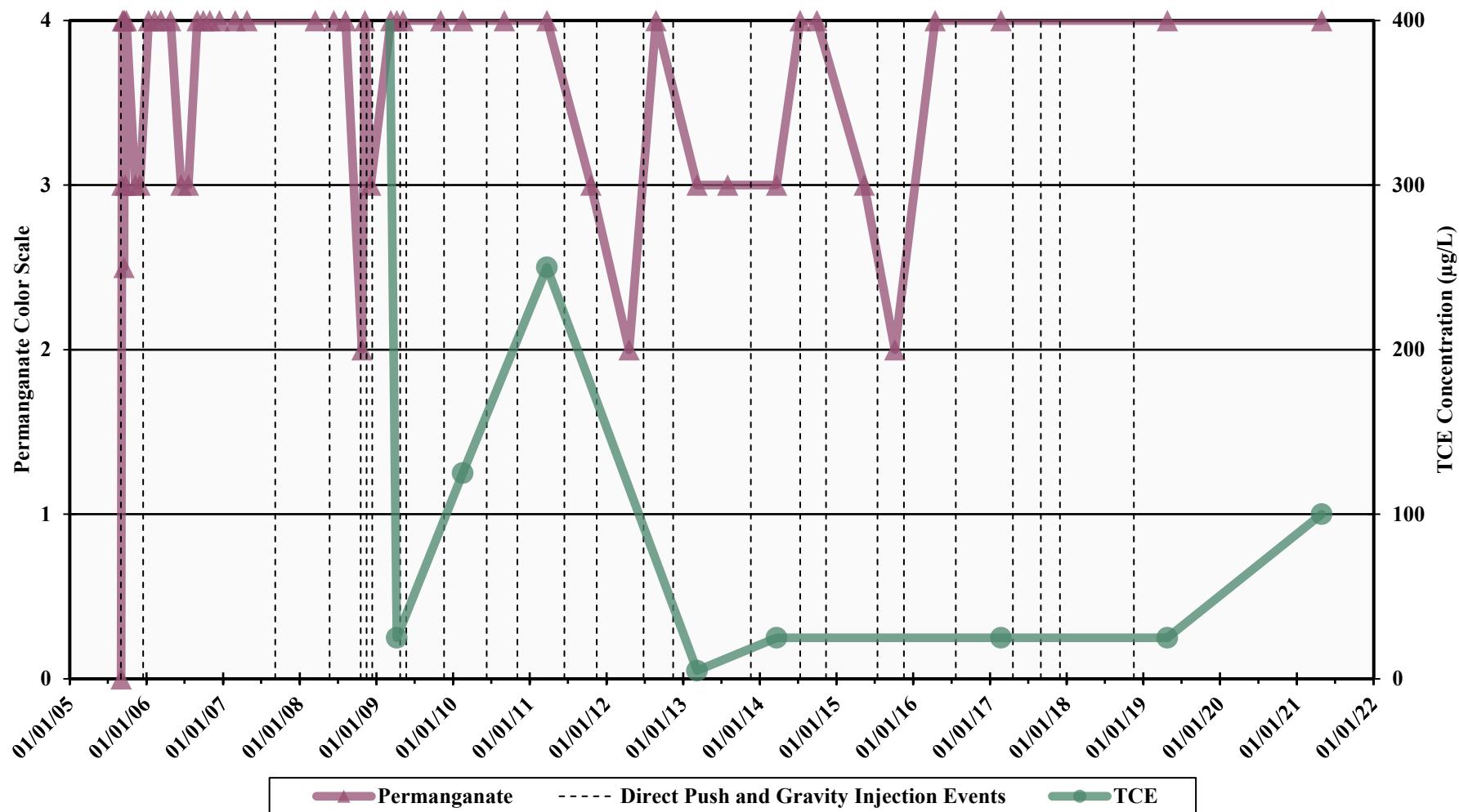
WELL MW-200S
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

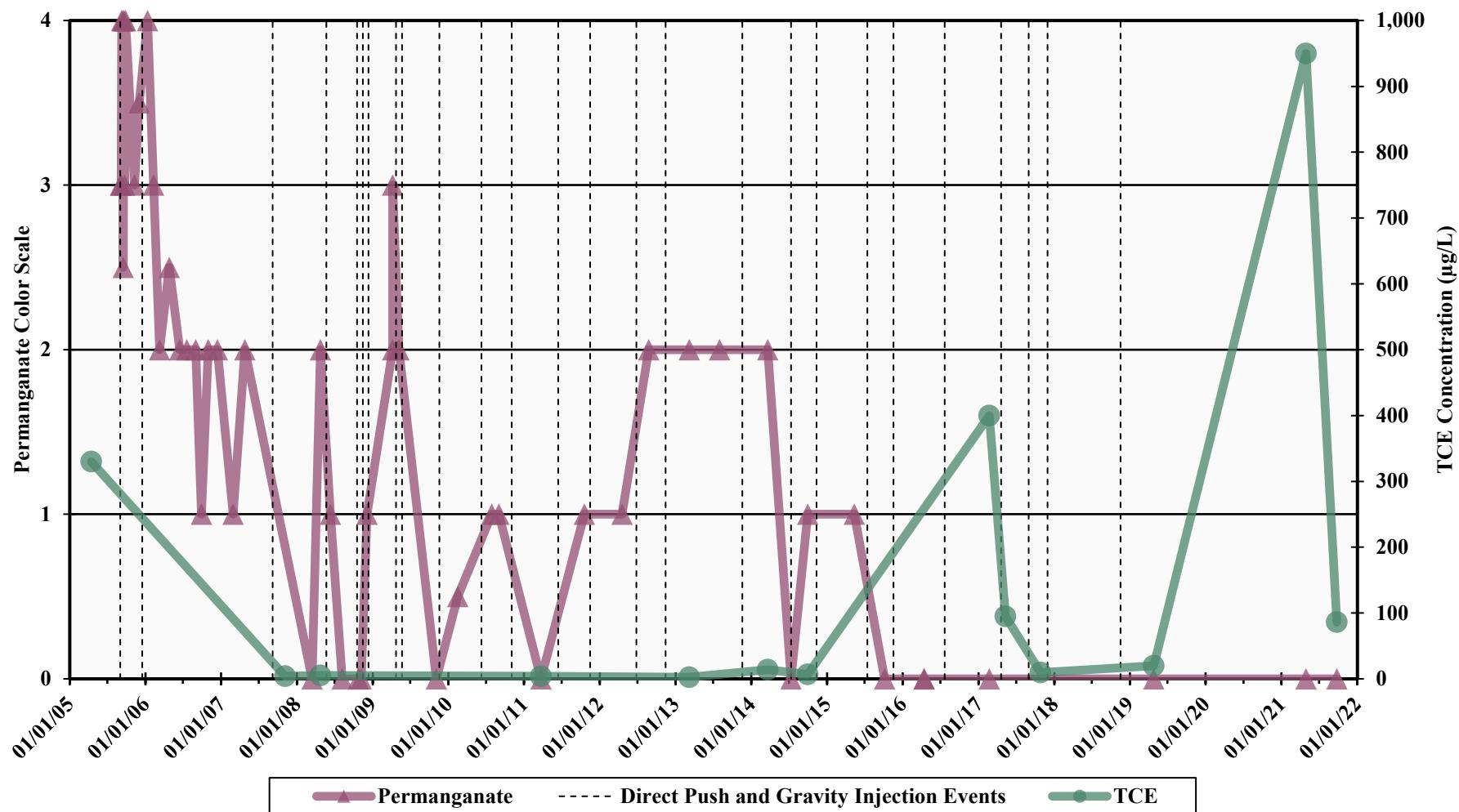
WELL MW-200D
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. µg/L = micrograms per liter.

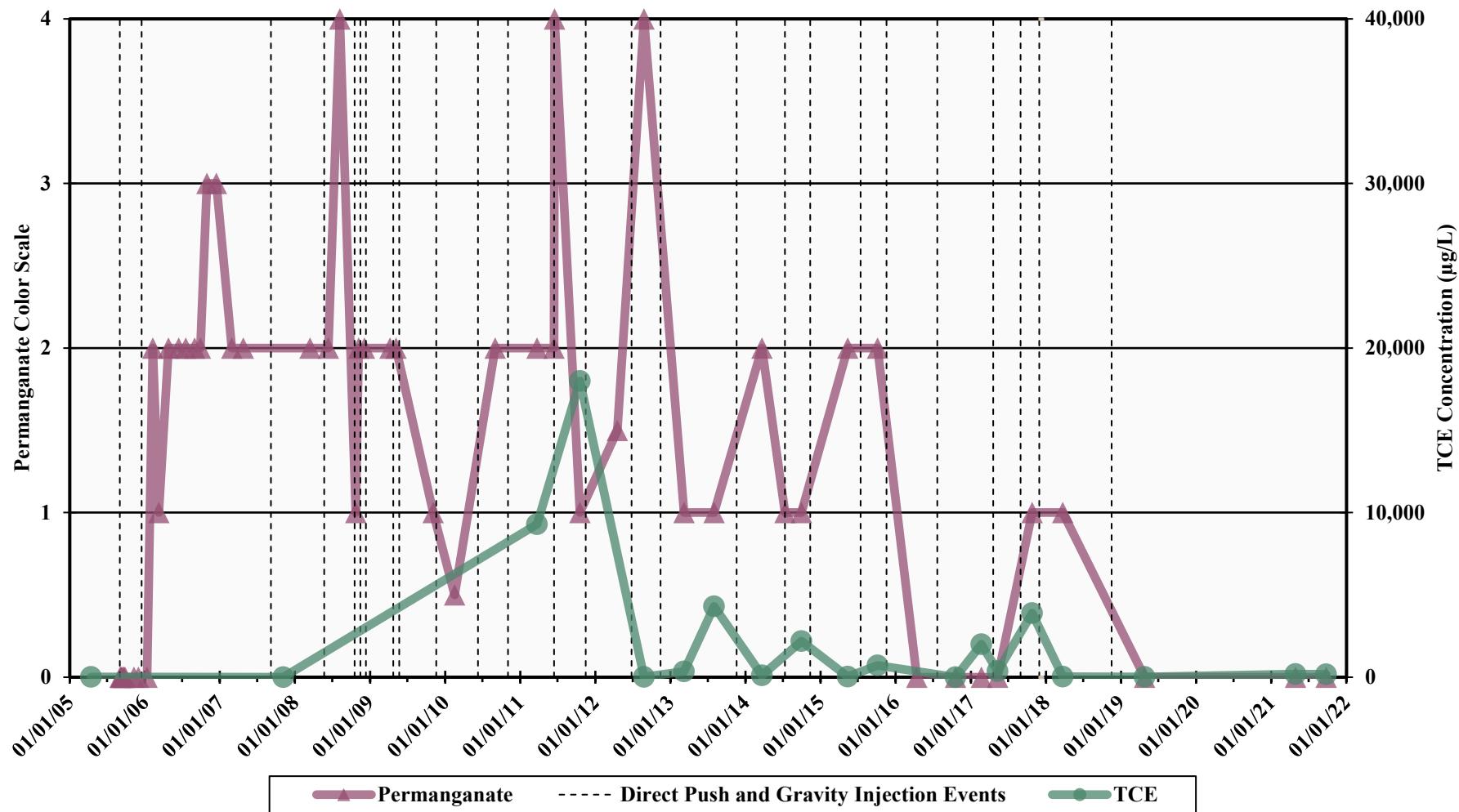
WELL MW-201S
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

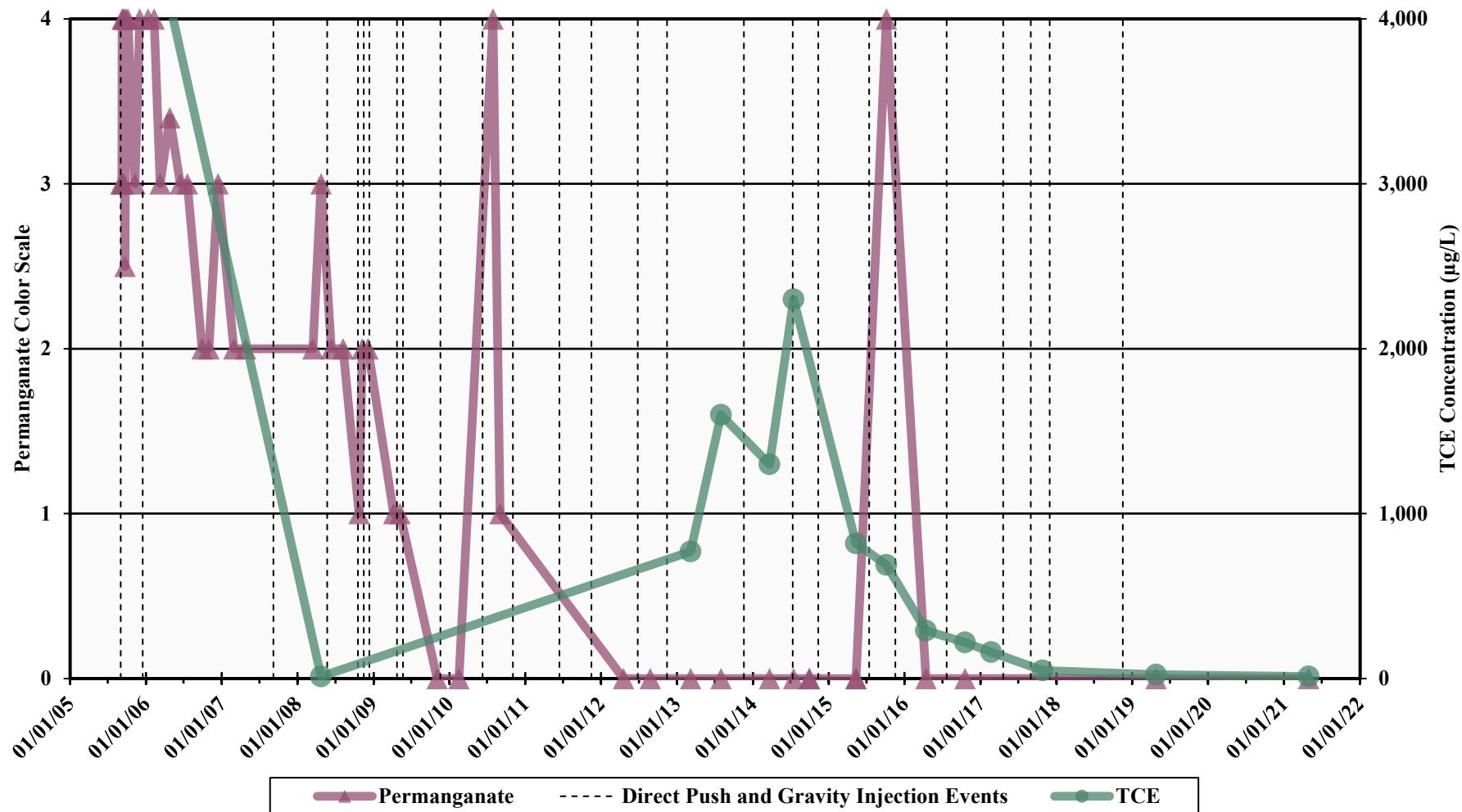
WELL MW-201D
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. µg/L = micrograms per liter.

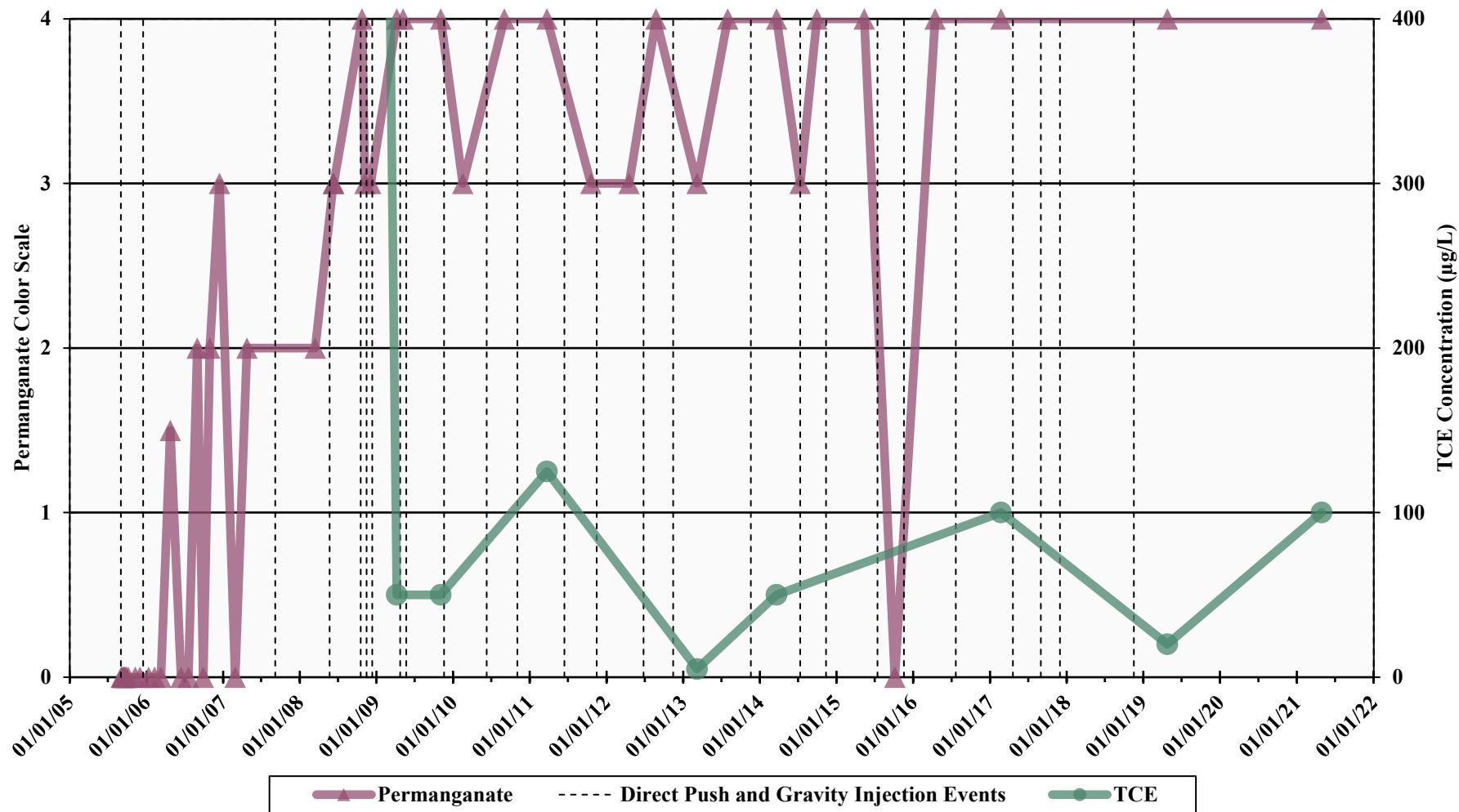
WELL MW-202S
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

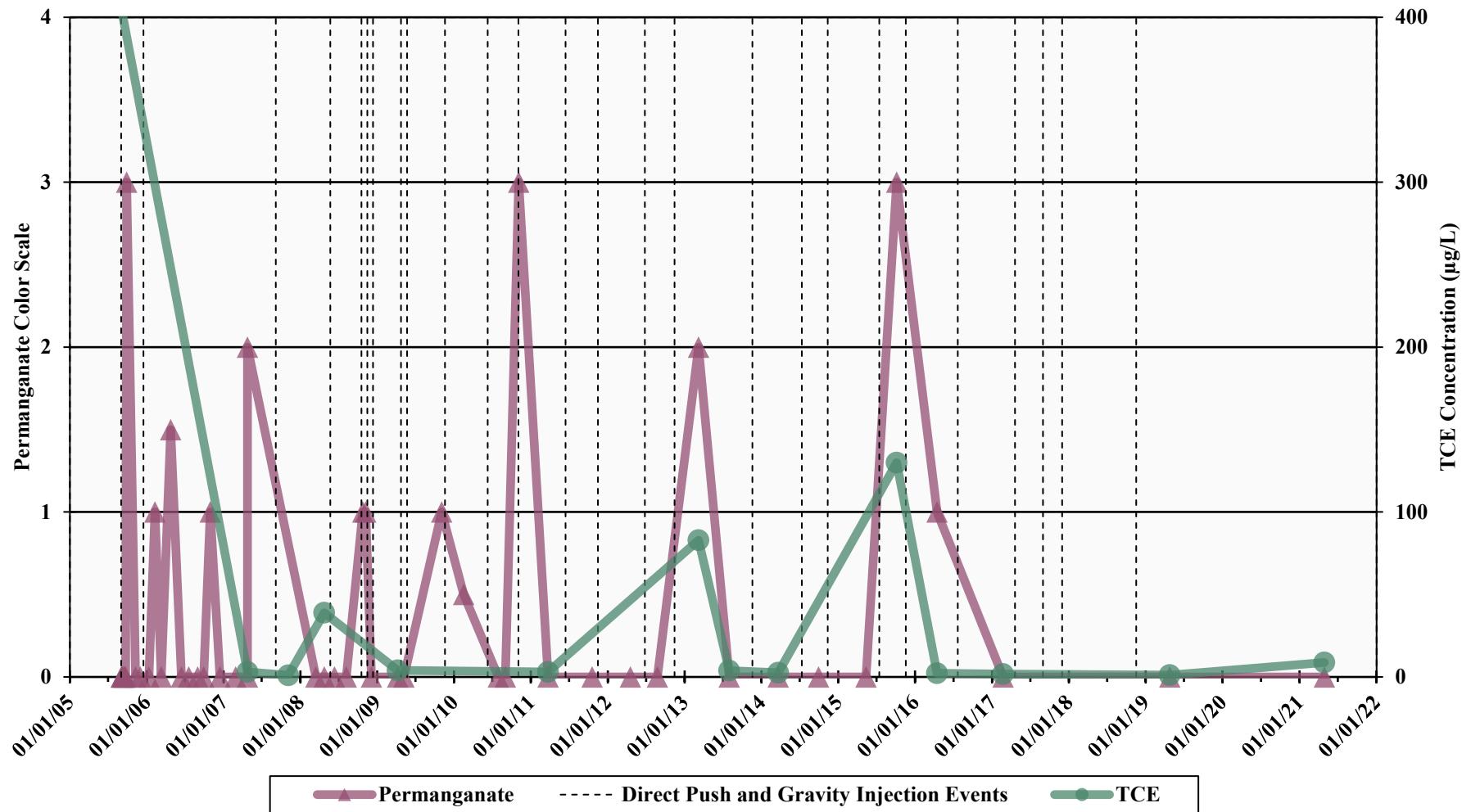
WELL MW-202D
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

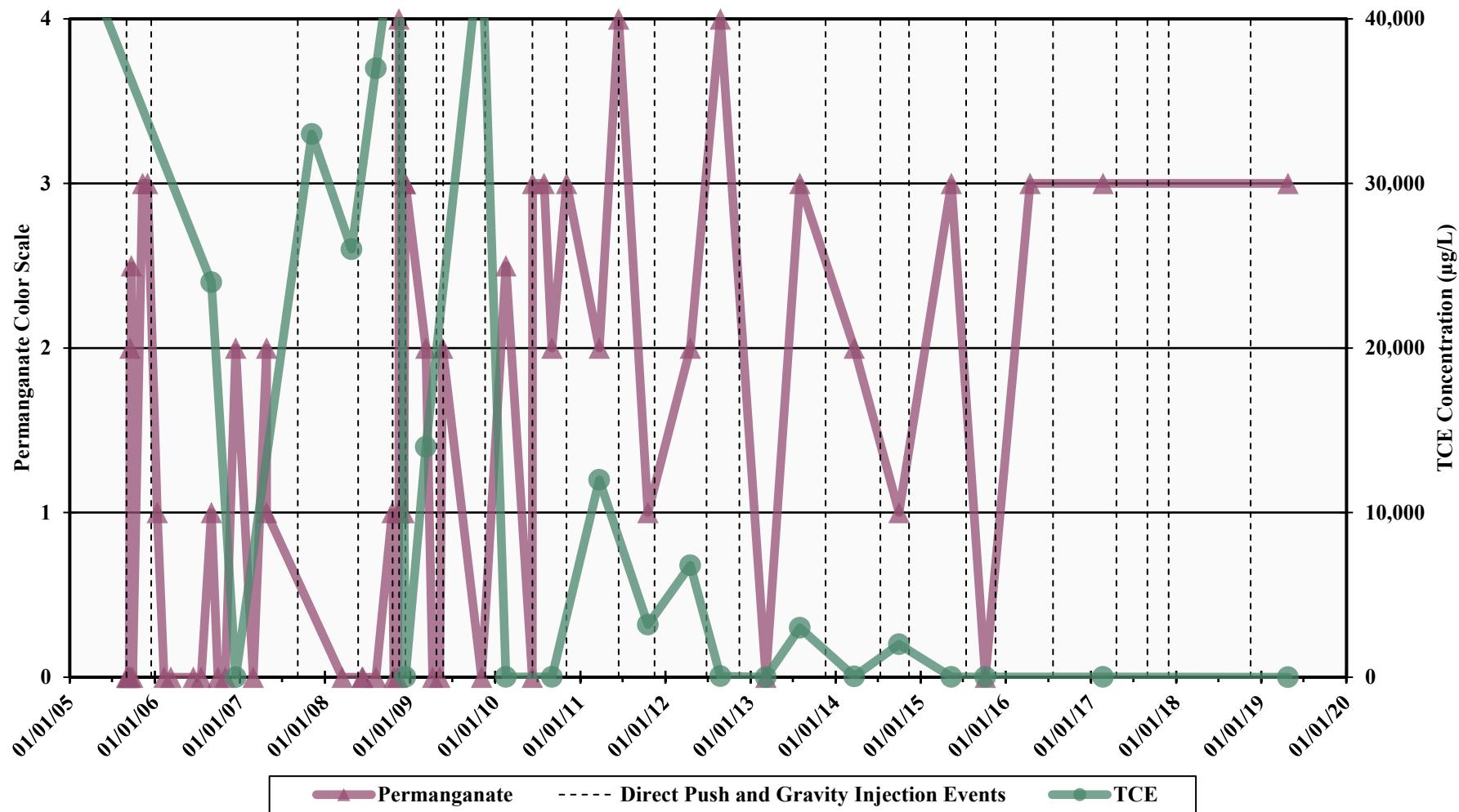
WELL MW-203S
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. µg/L = micrograms per liter.

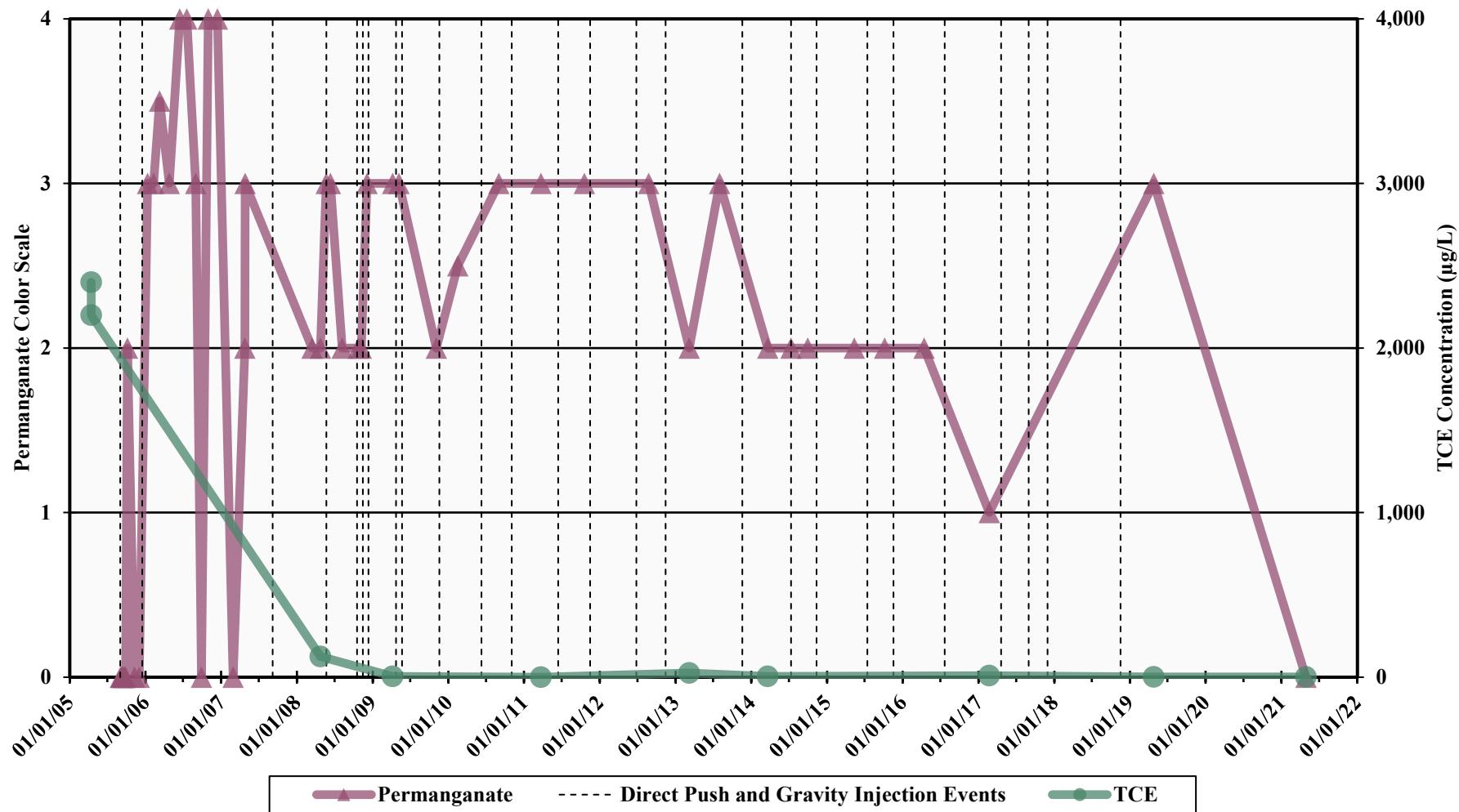
WELL MW-203D
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

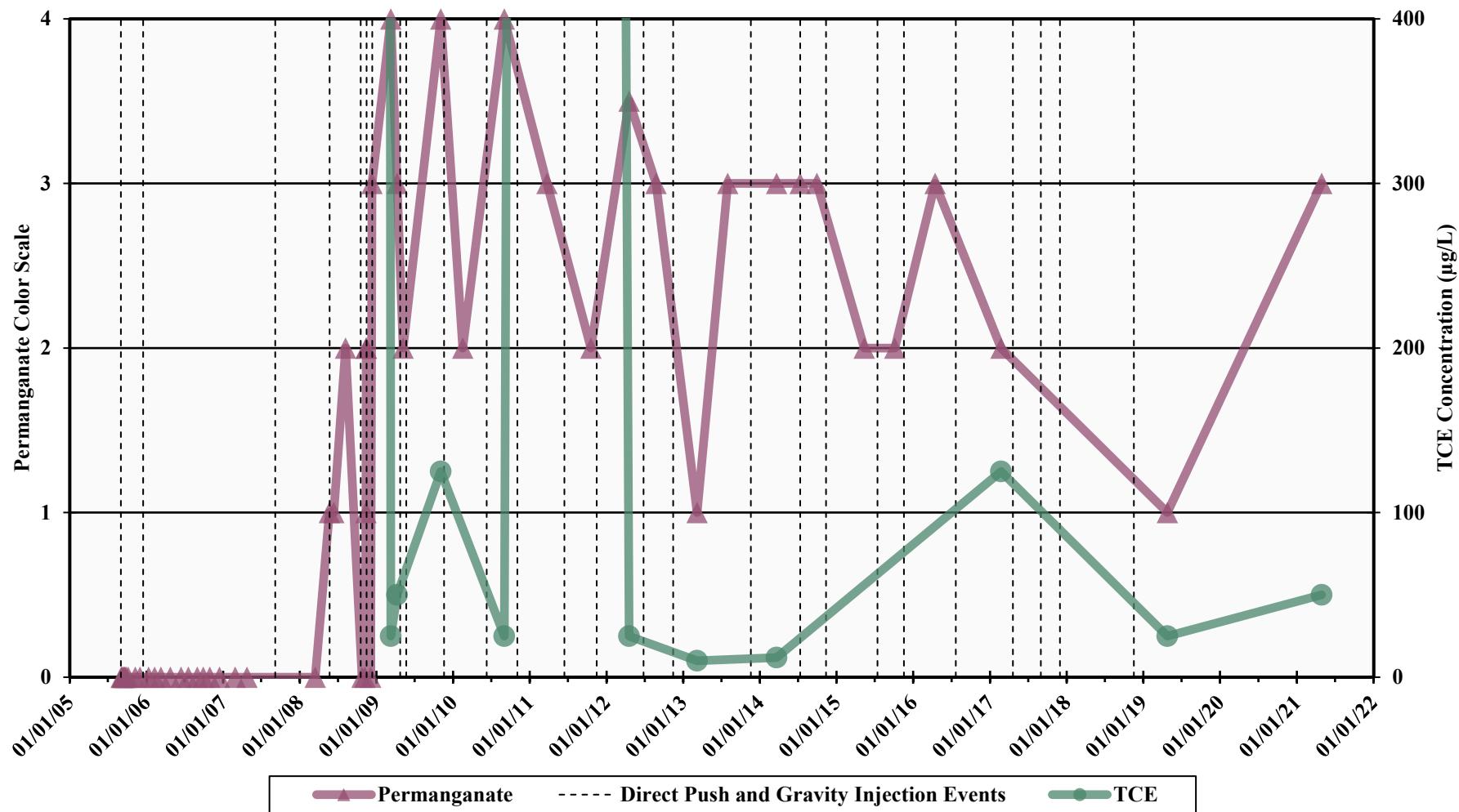
WELL MW-204S
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

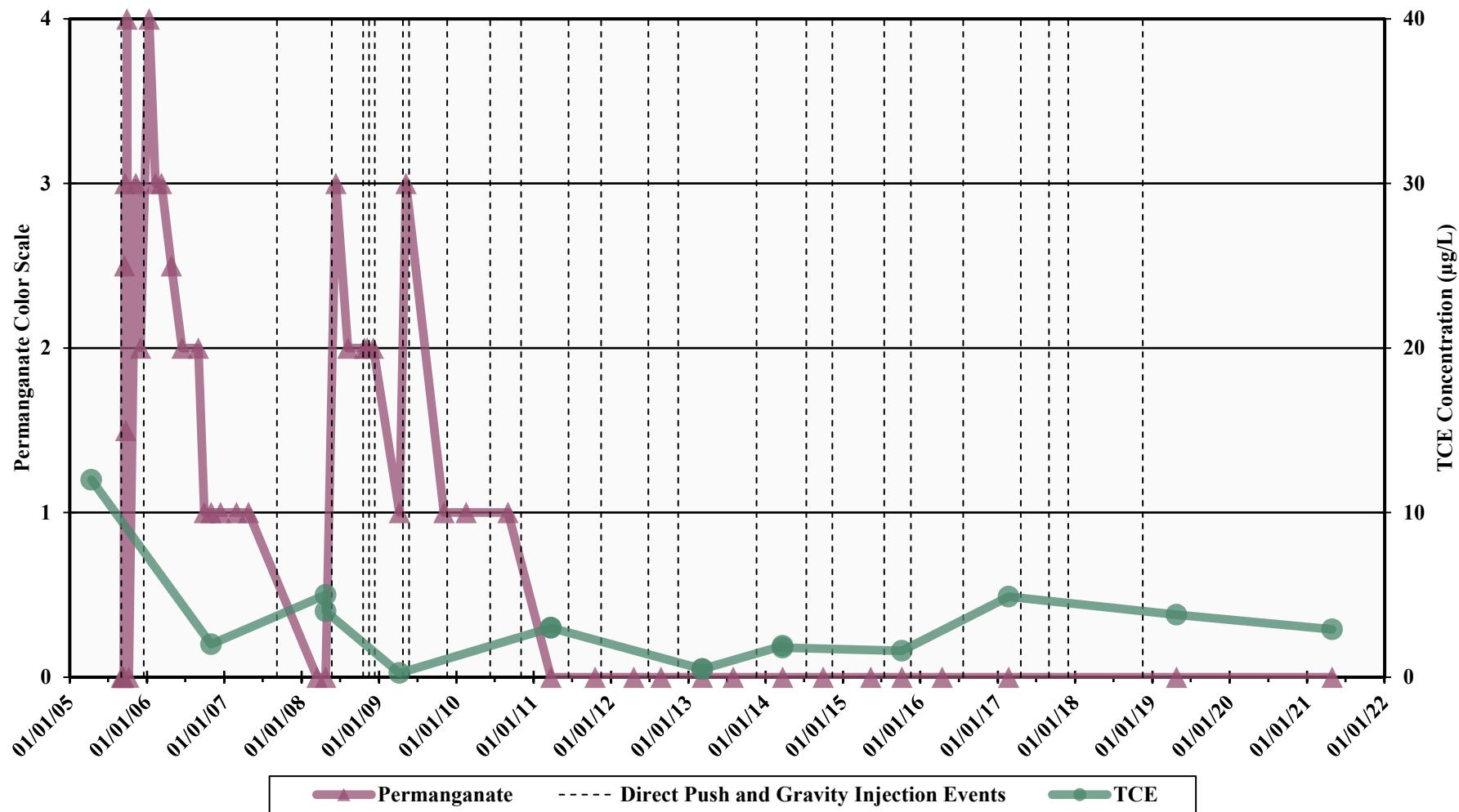
WELL MW-204D
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

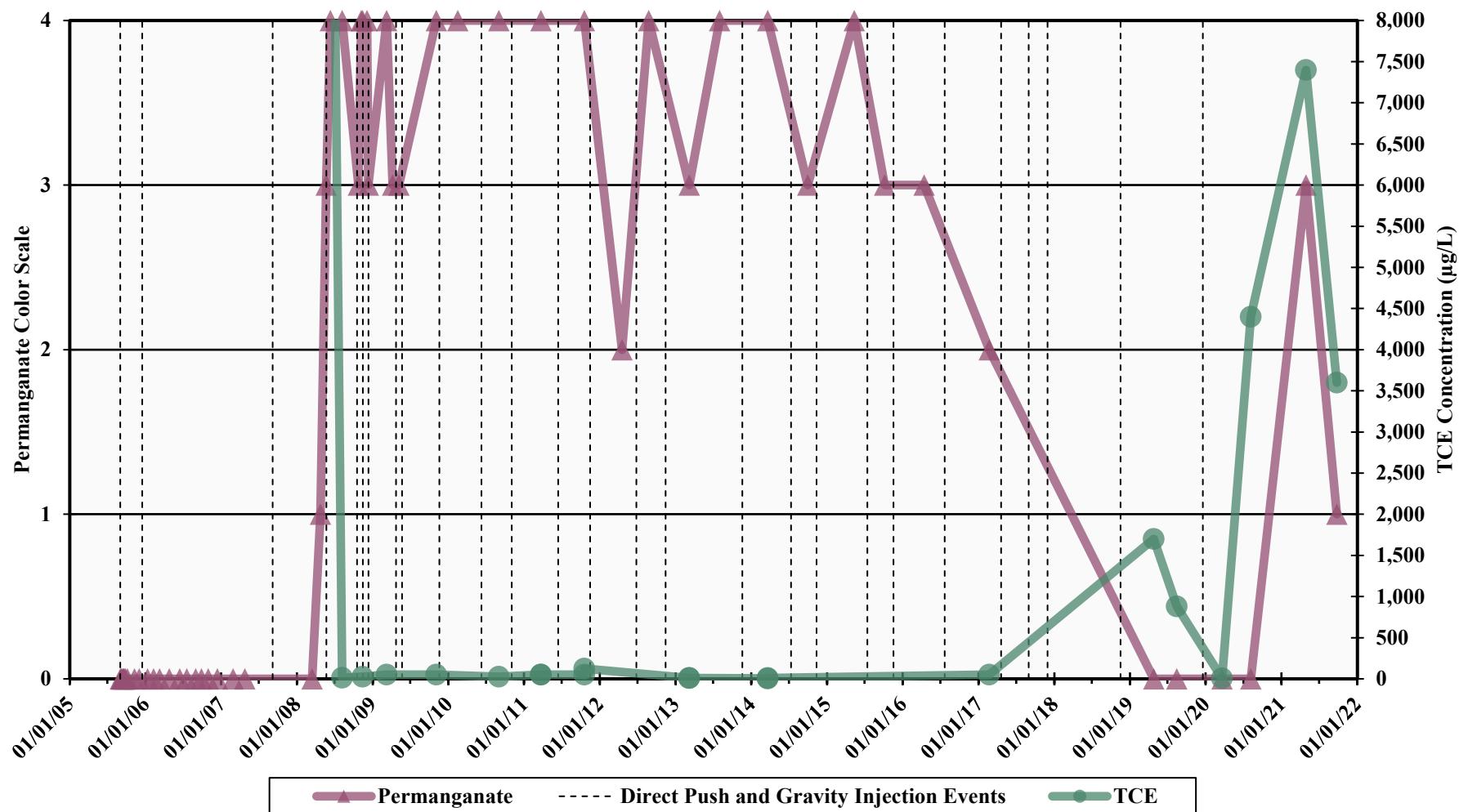
WELL MW-205S
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. µg/L = micrograms per liter.

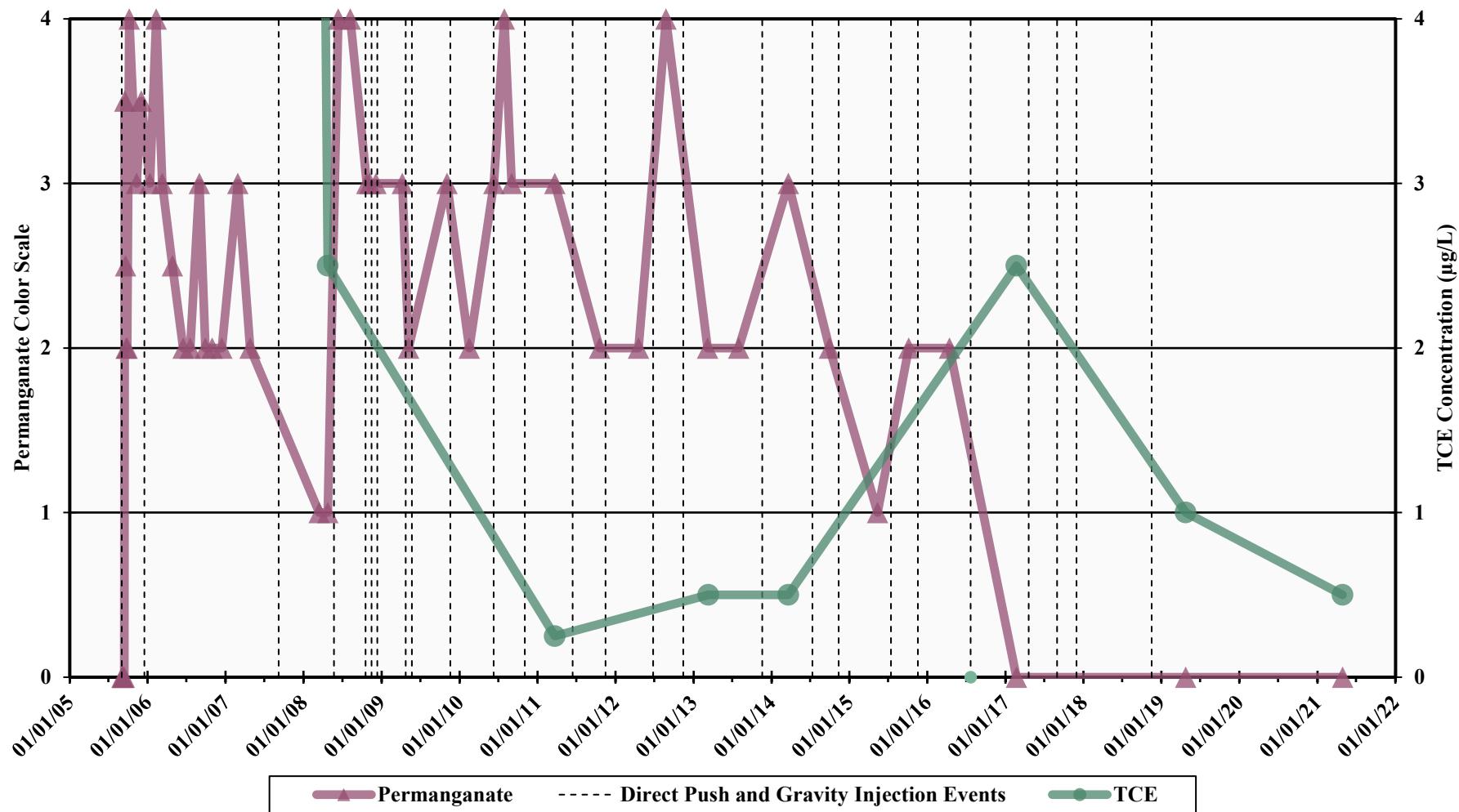
WELL MW-205D
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

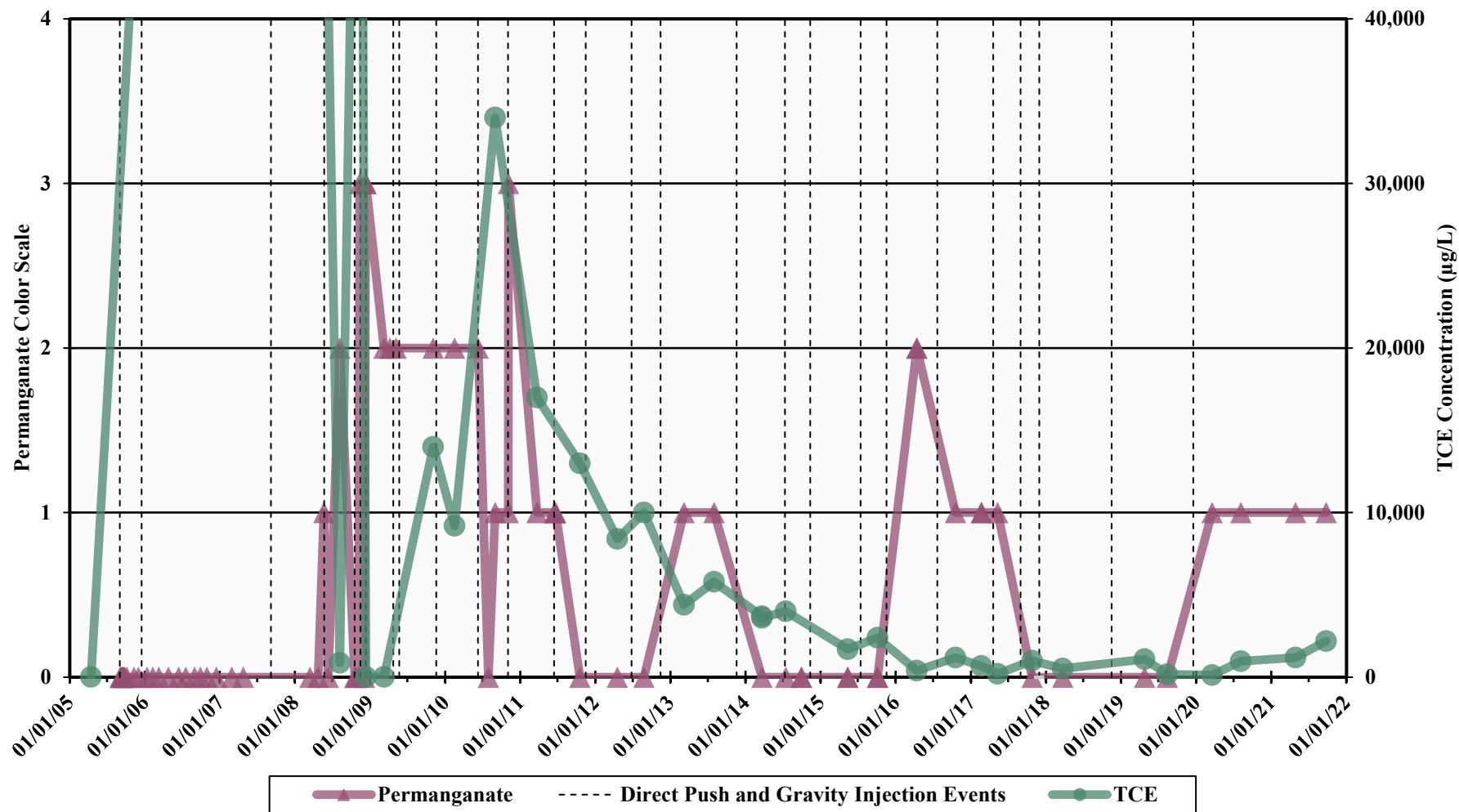
WELL MW-206S
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

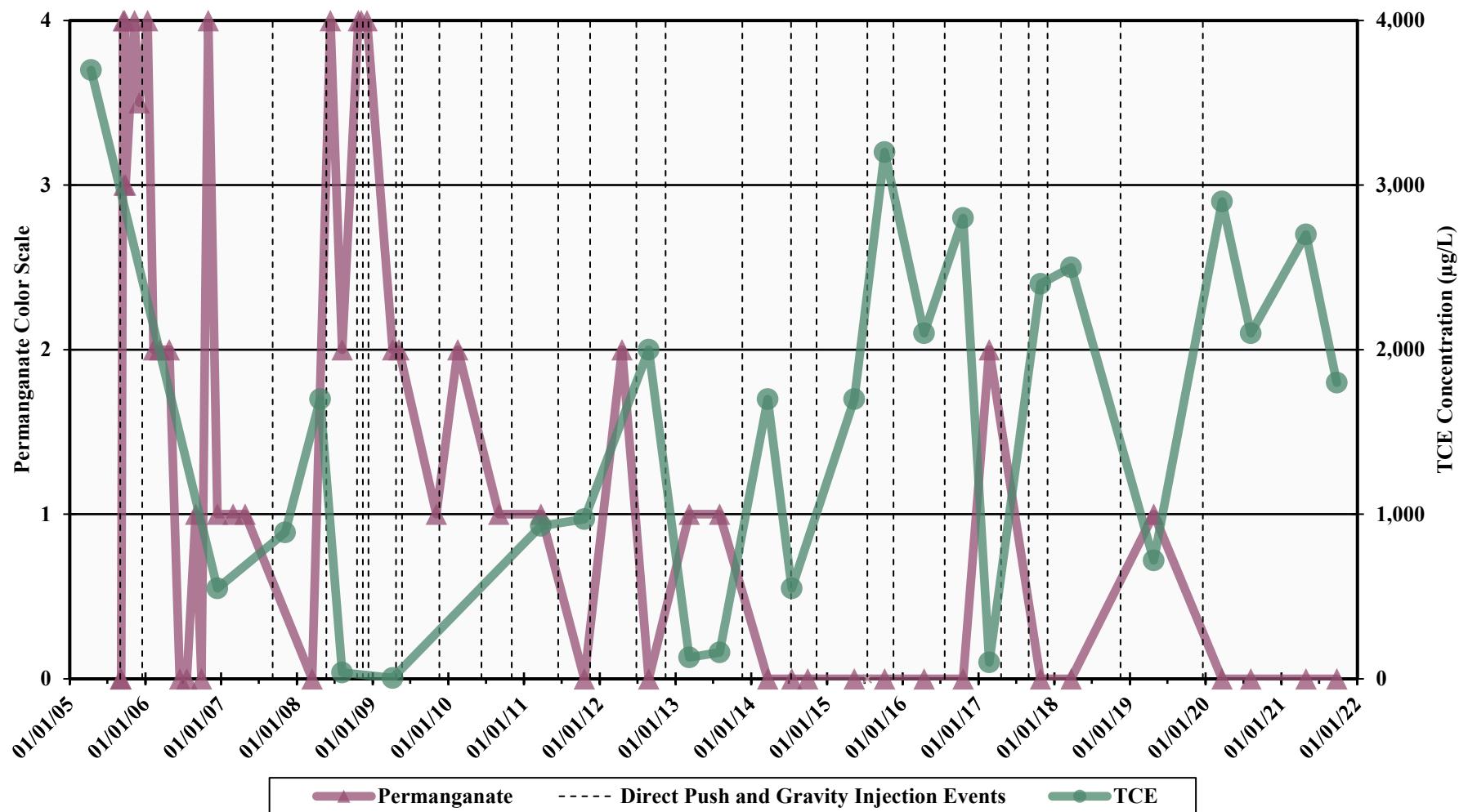
WELL MW-206D
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. µg/L = micrograms per liter.

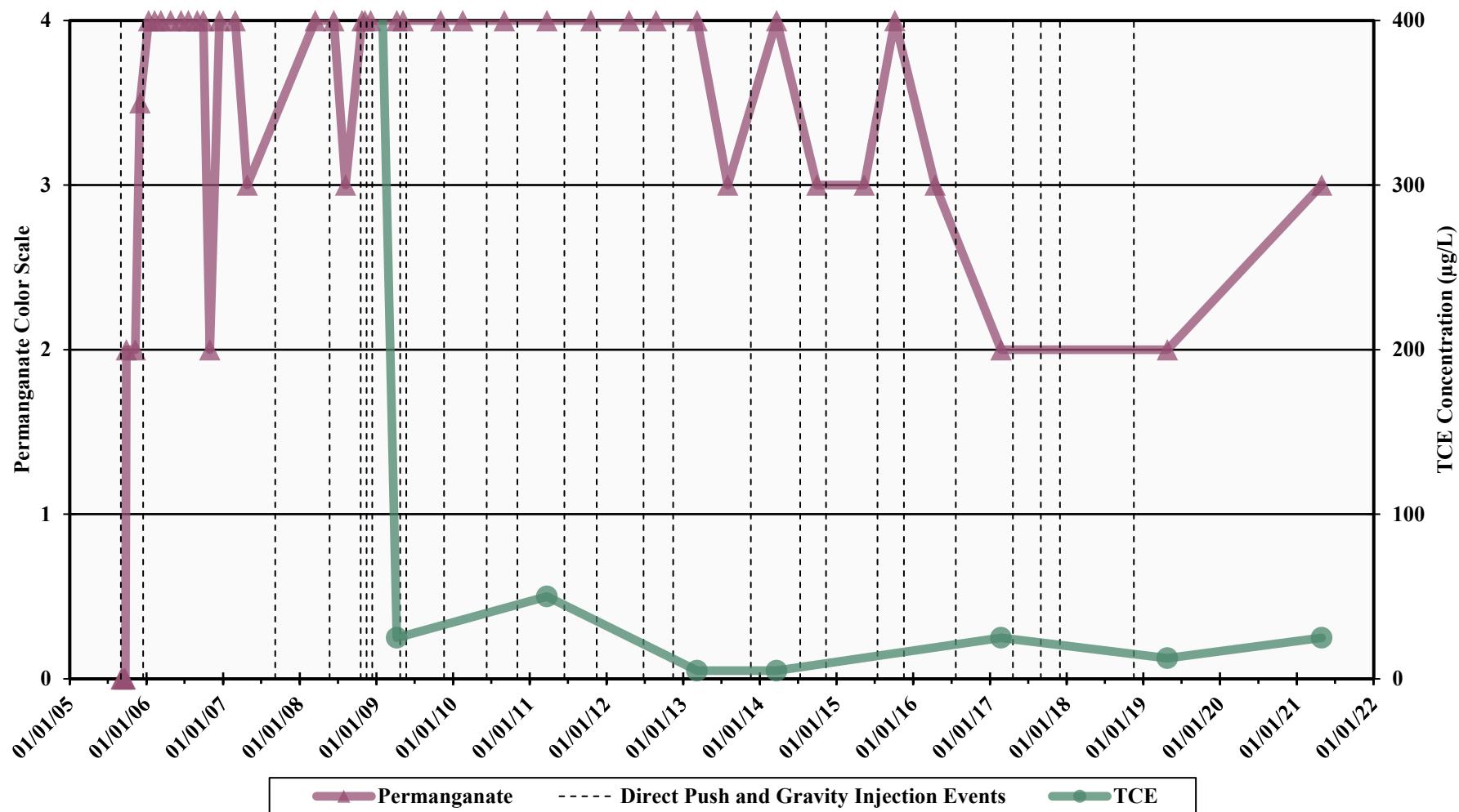
WELL MW-207S
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. µg/L = micrograms per liter.

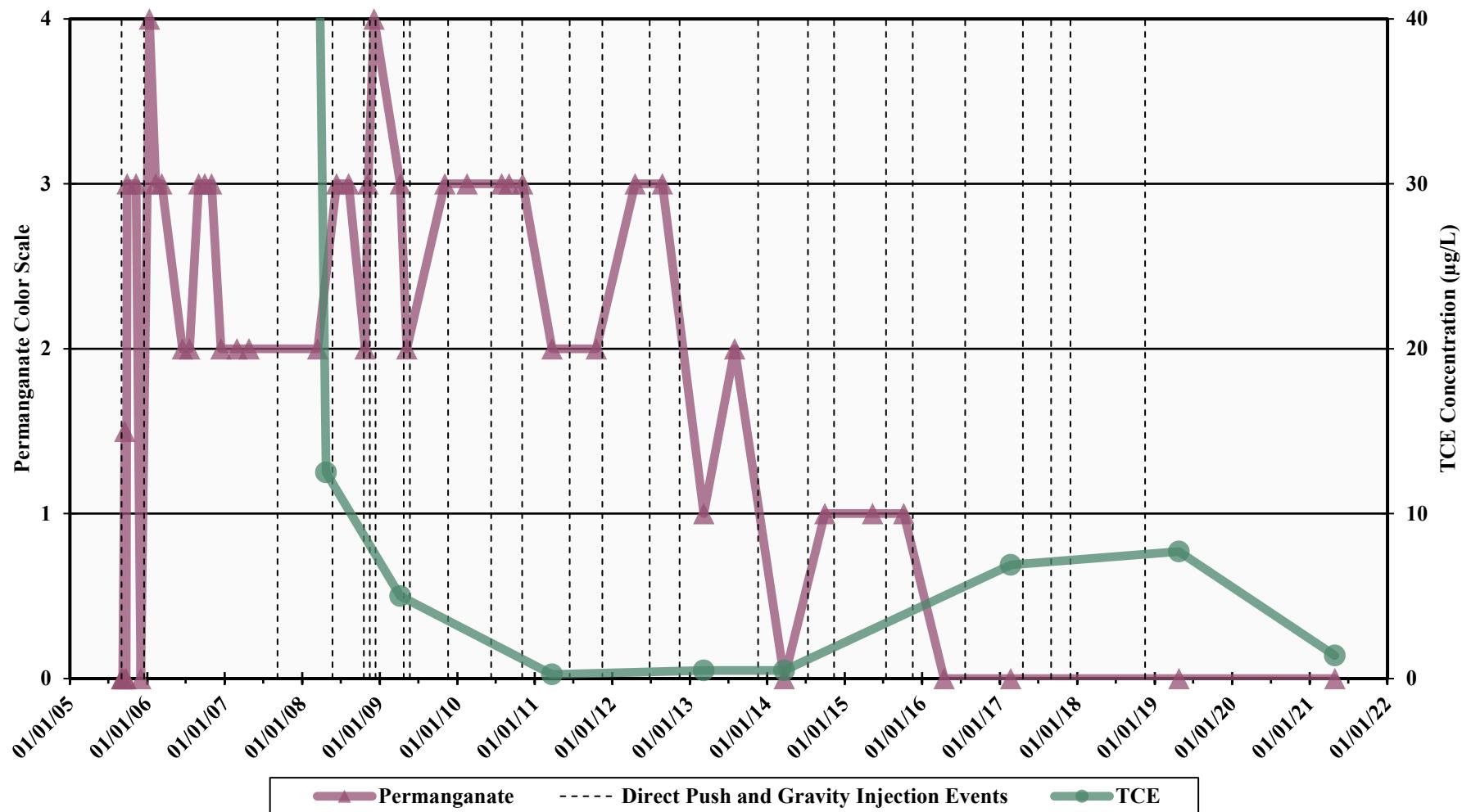
WELL MW-207D
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

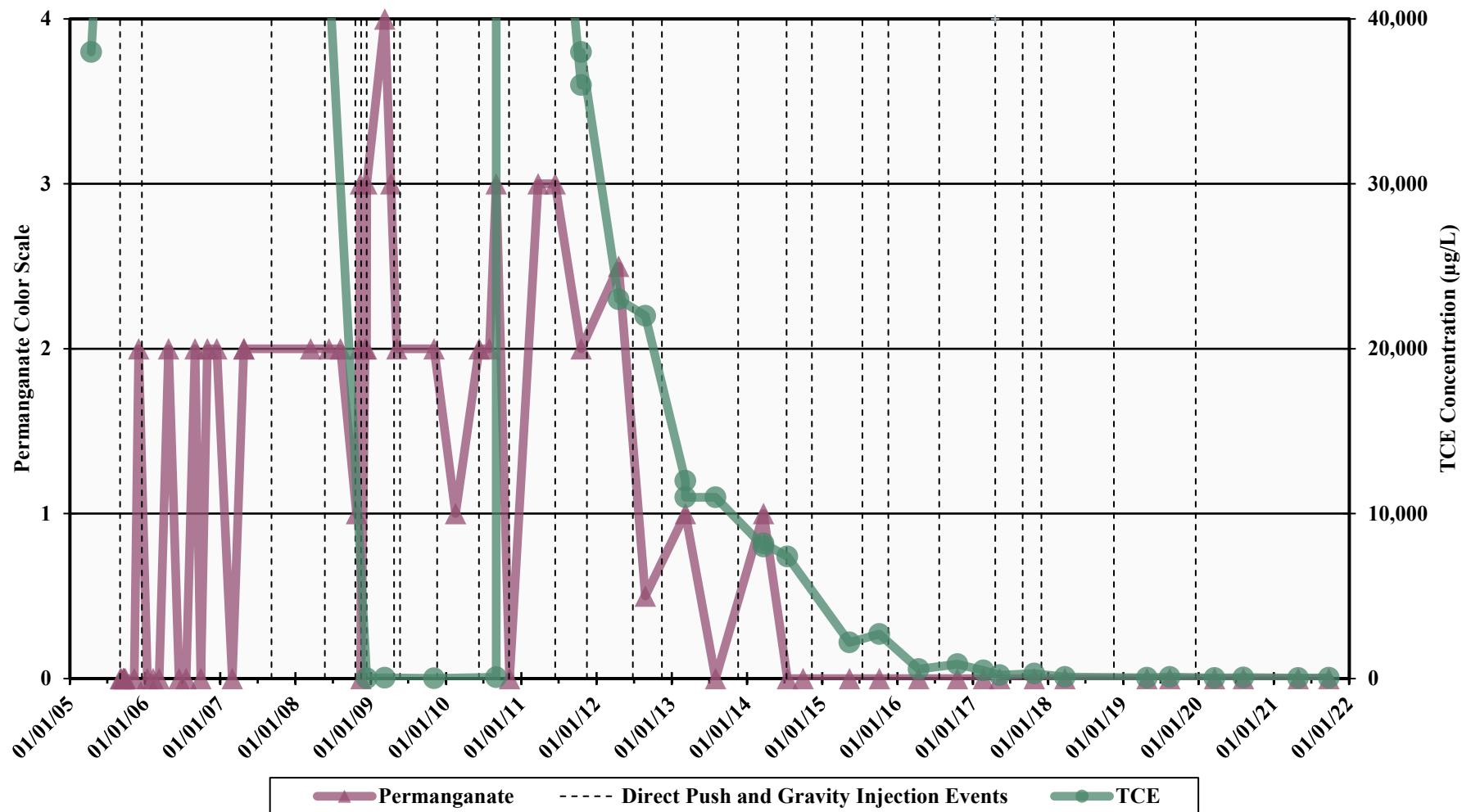
WELL MW-208S
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. µg/L = micrograms per liter.

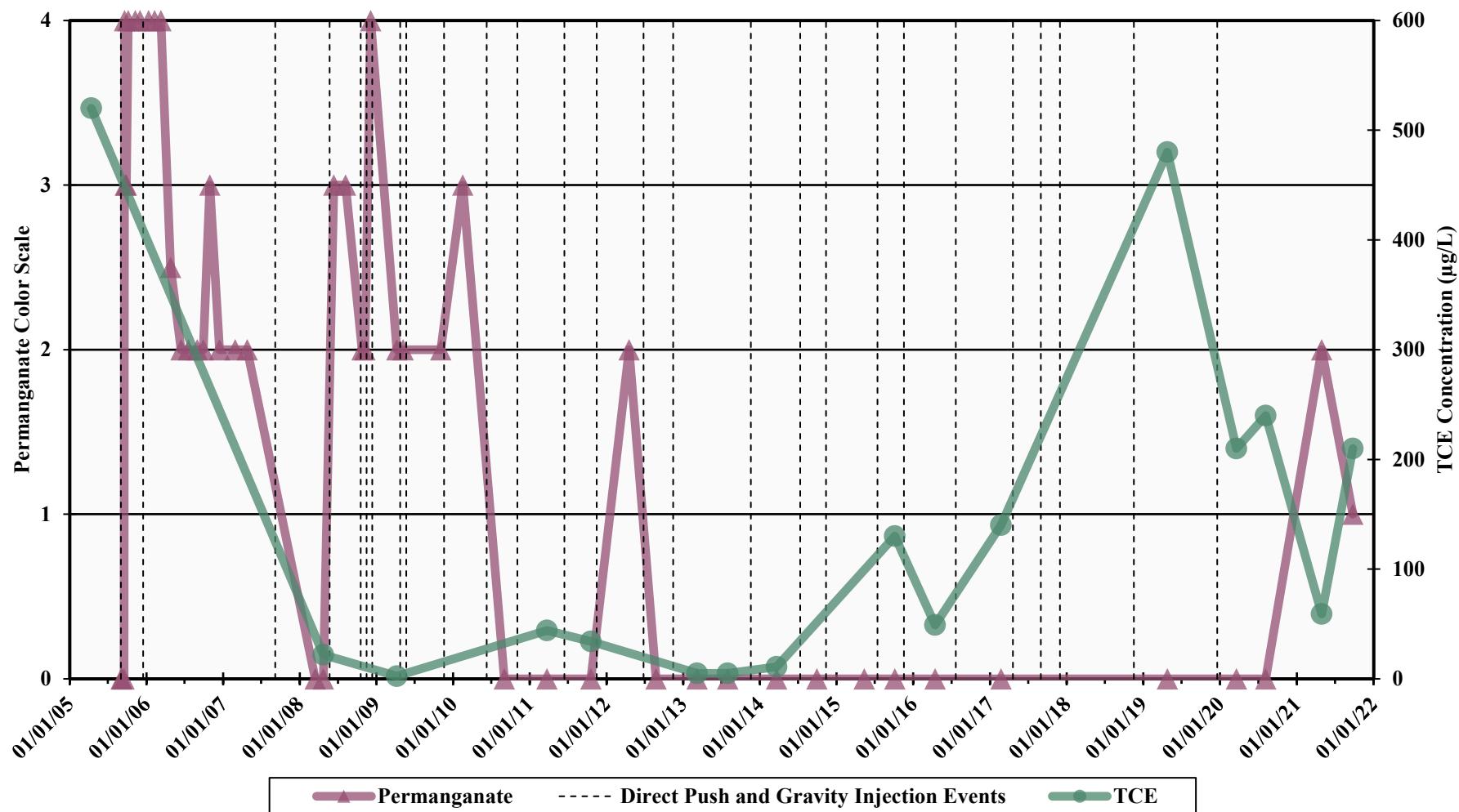
WELL MW-208D
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. µg/L = micrograms per liter.

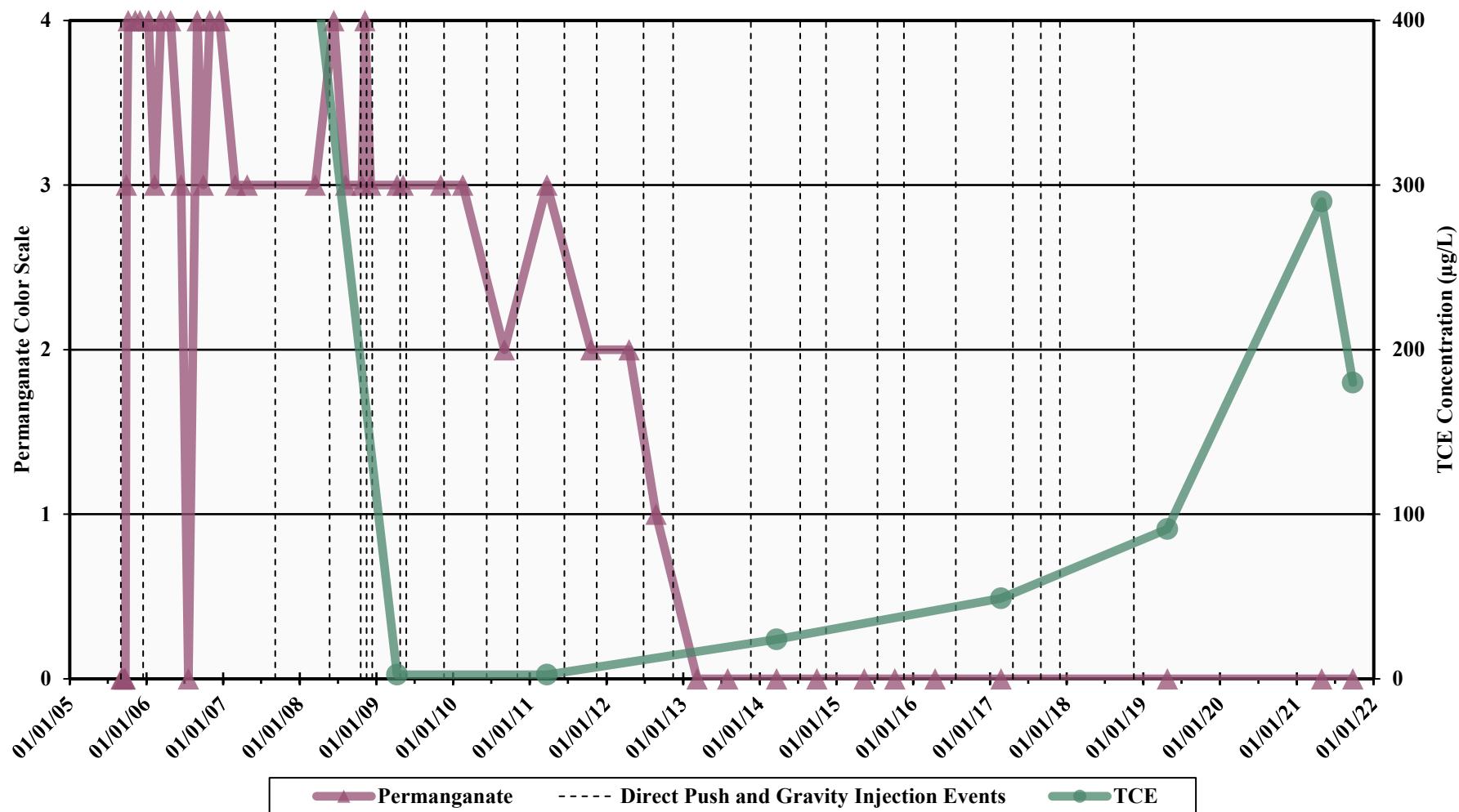
WELL MW-209S
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. µg/L = micrograms per liter.

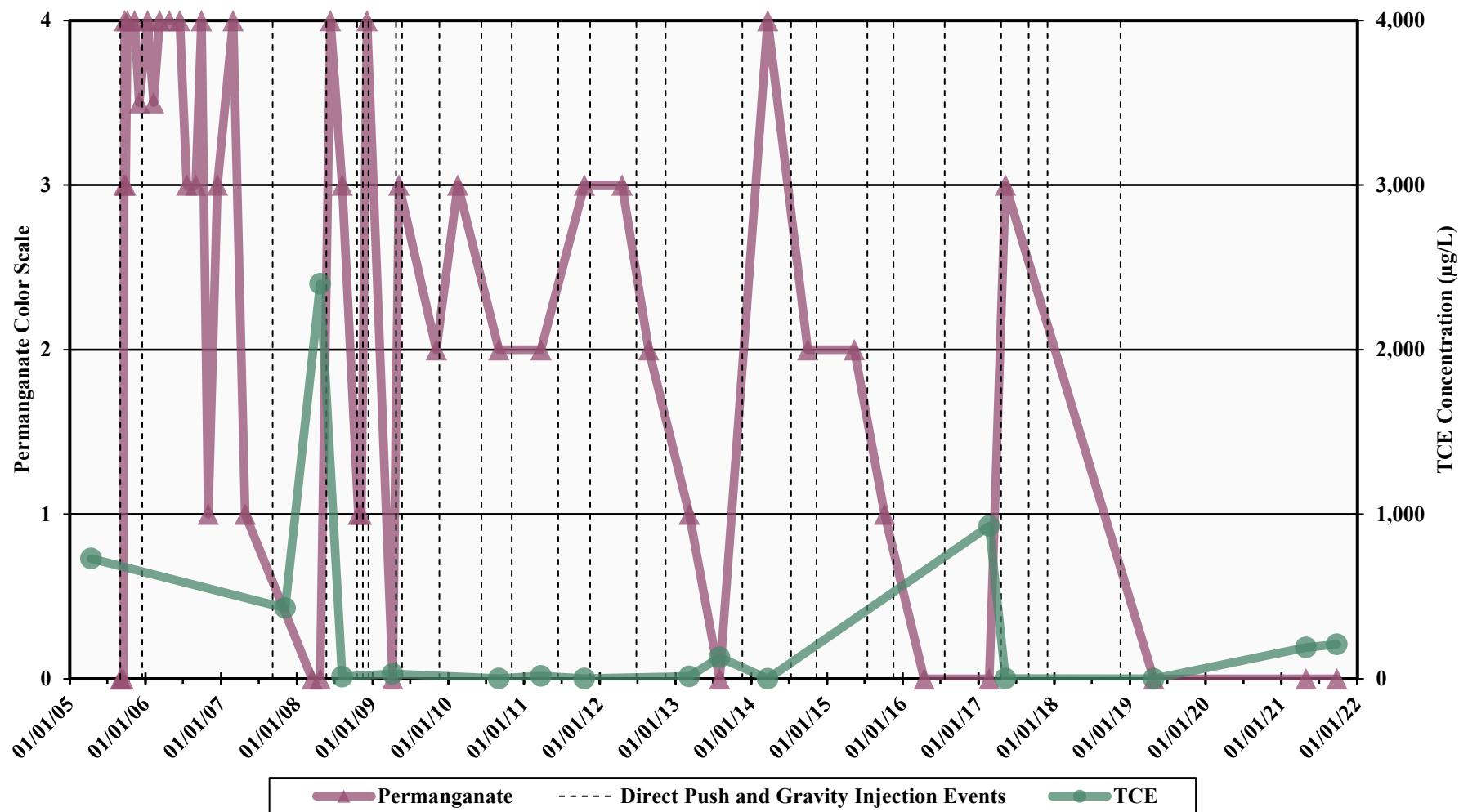
WELL MW-209D
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

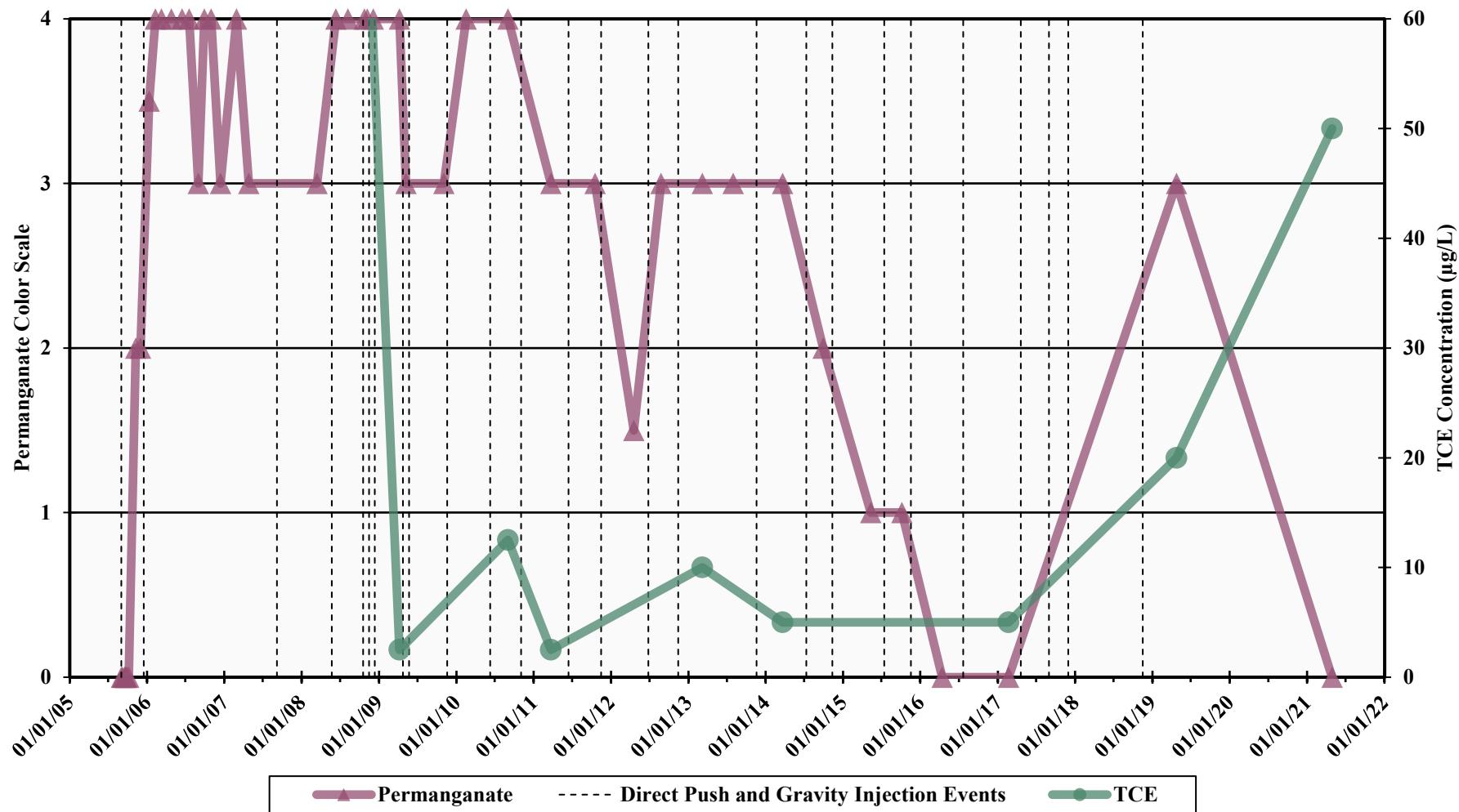
WELL MW-210S
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. µg/L = micrograms per liter.

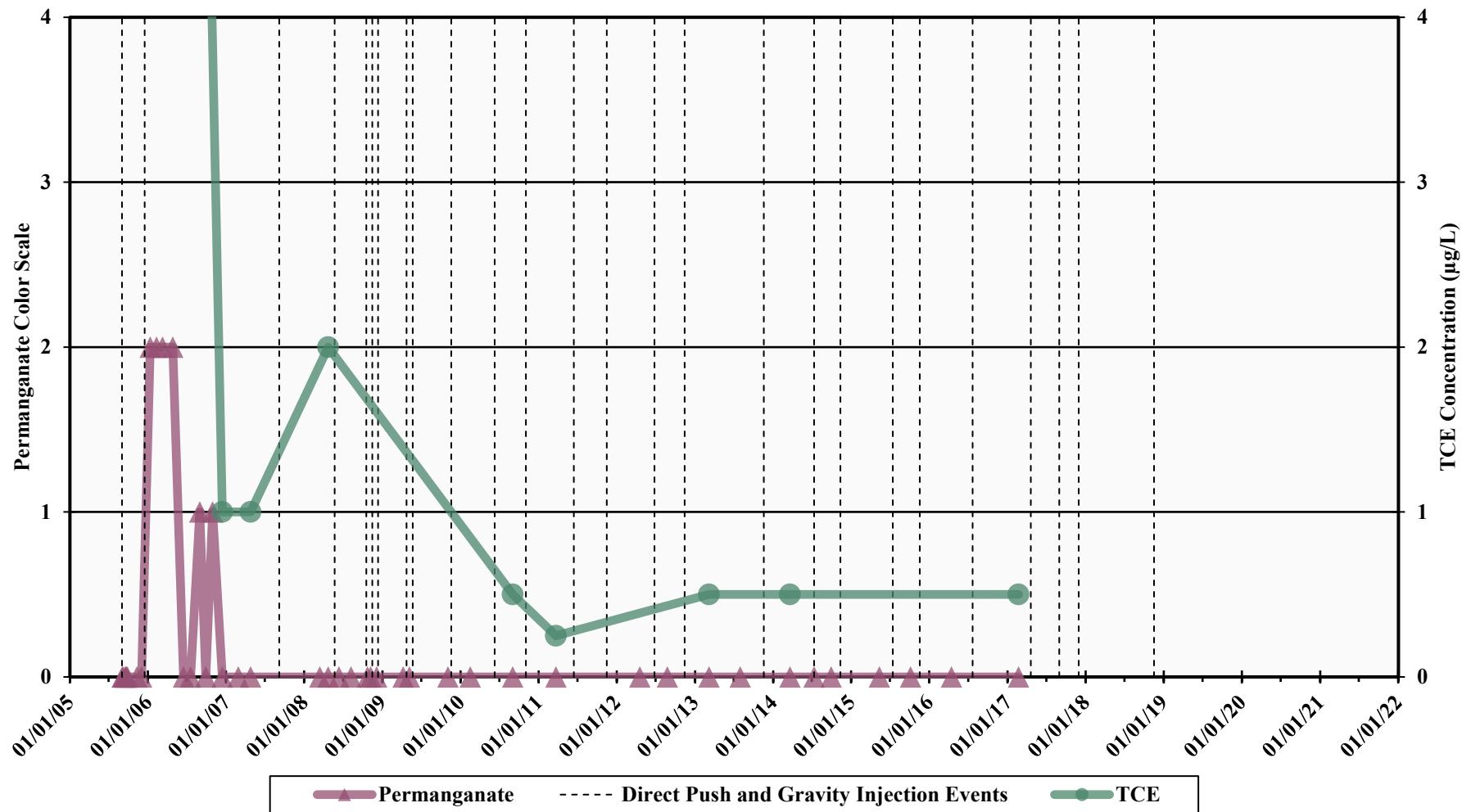
WELL MW-210D
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

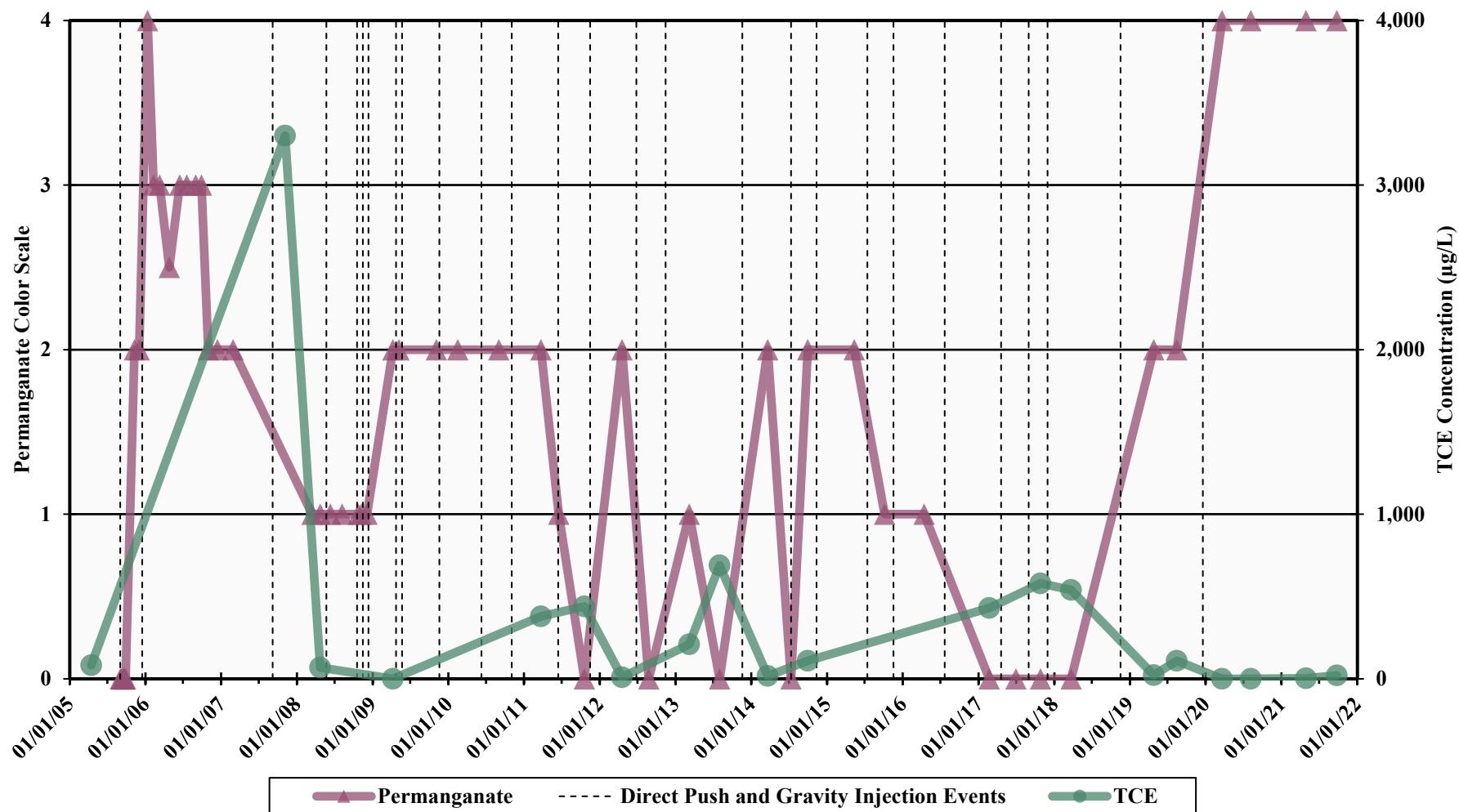
WELL MW-211S
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

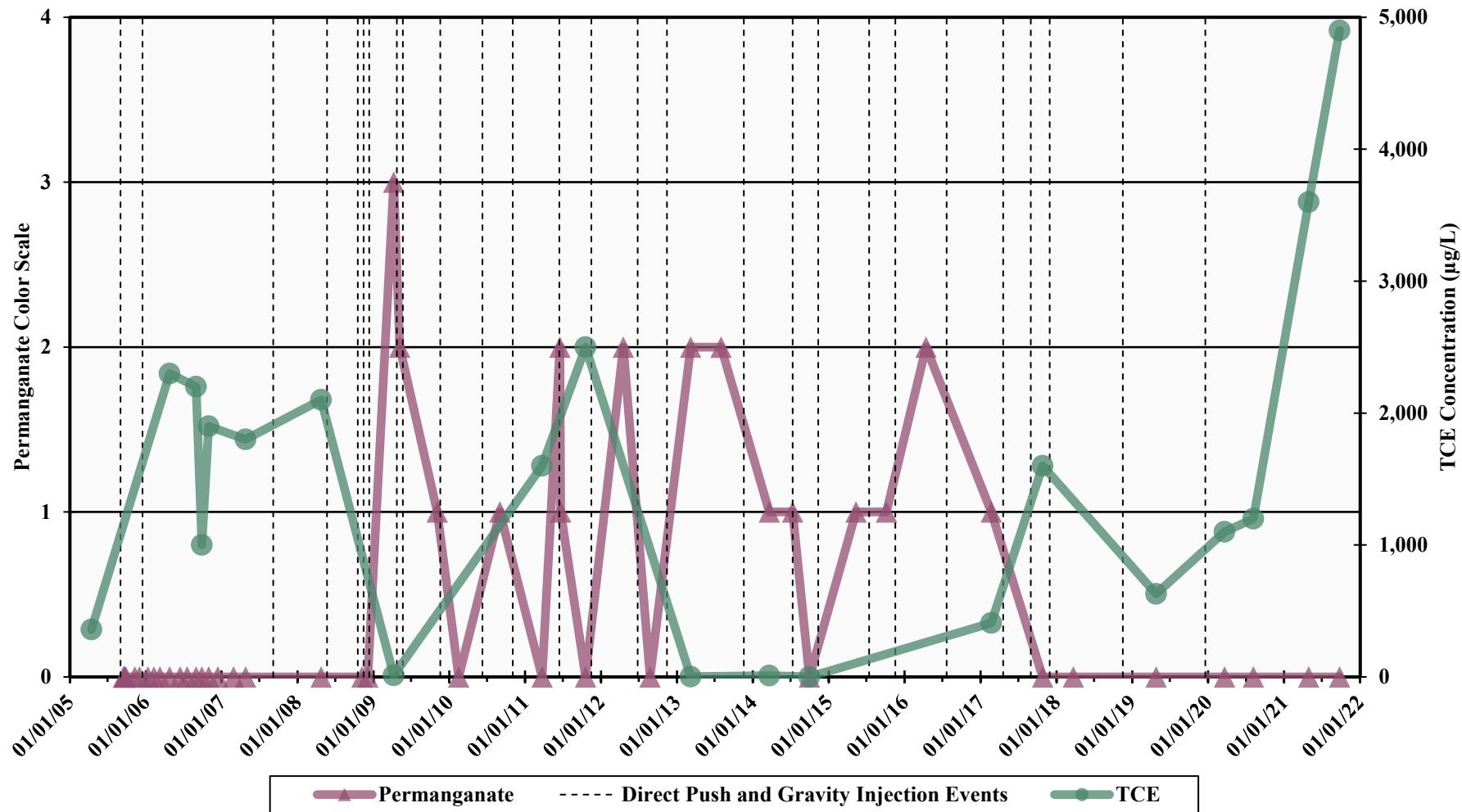
WELL MW-211D
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

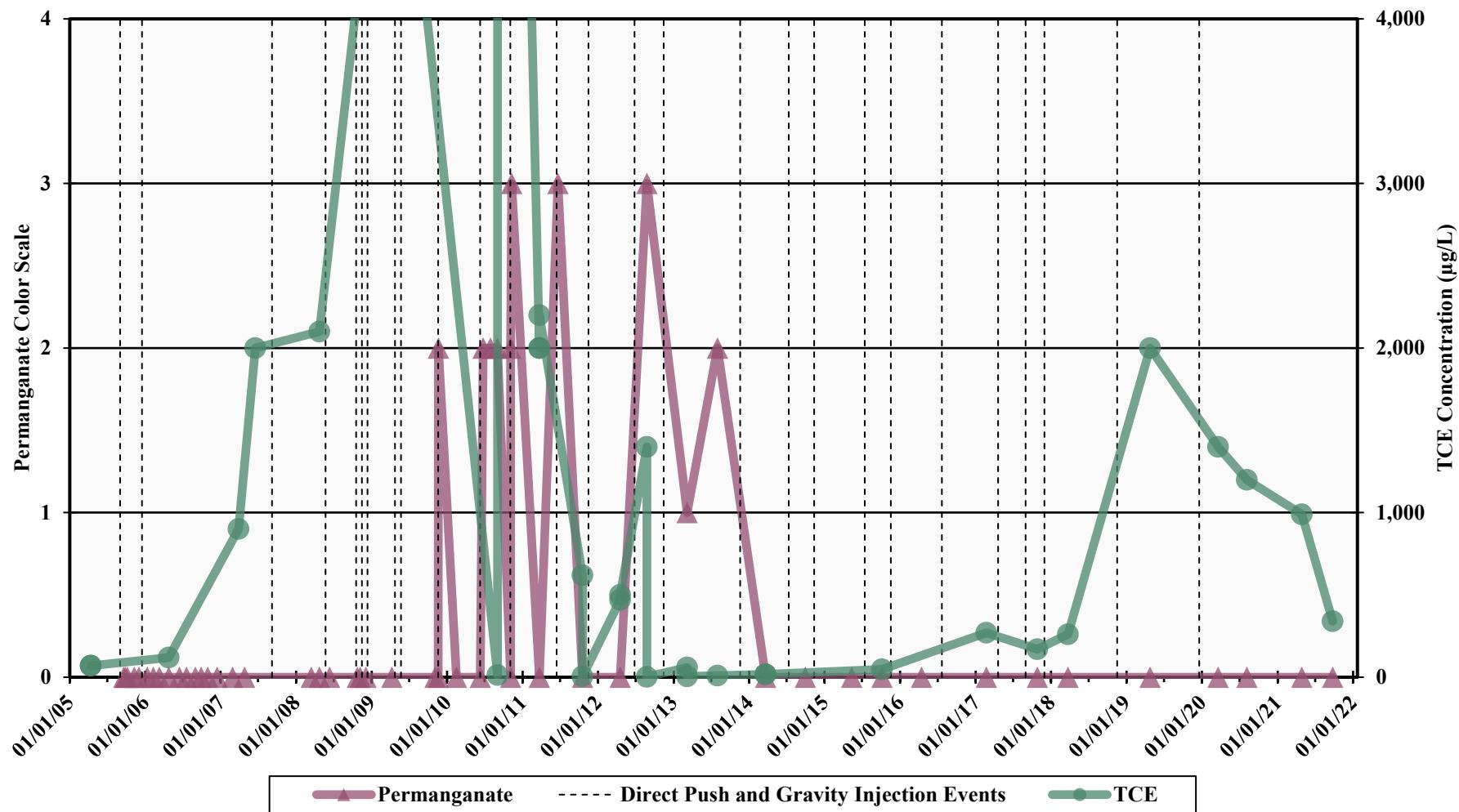
WELL MW-212S
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. µg/L = micrograms per liter.

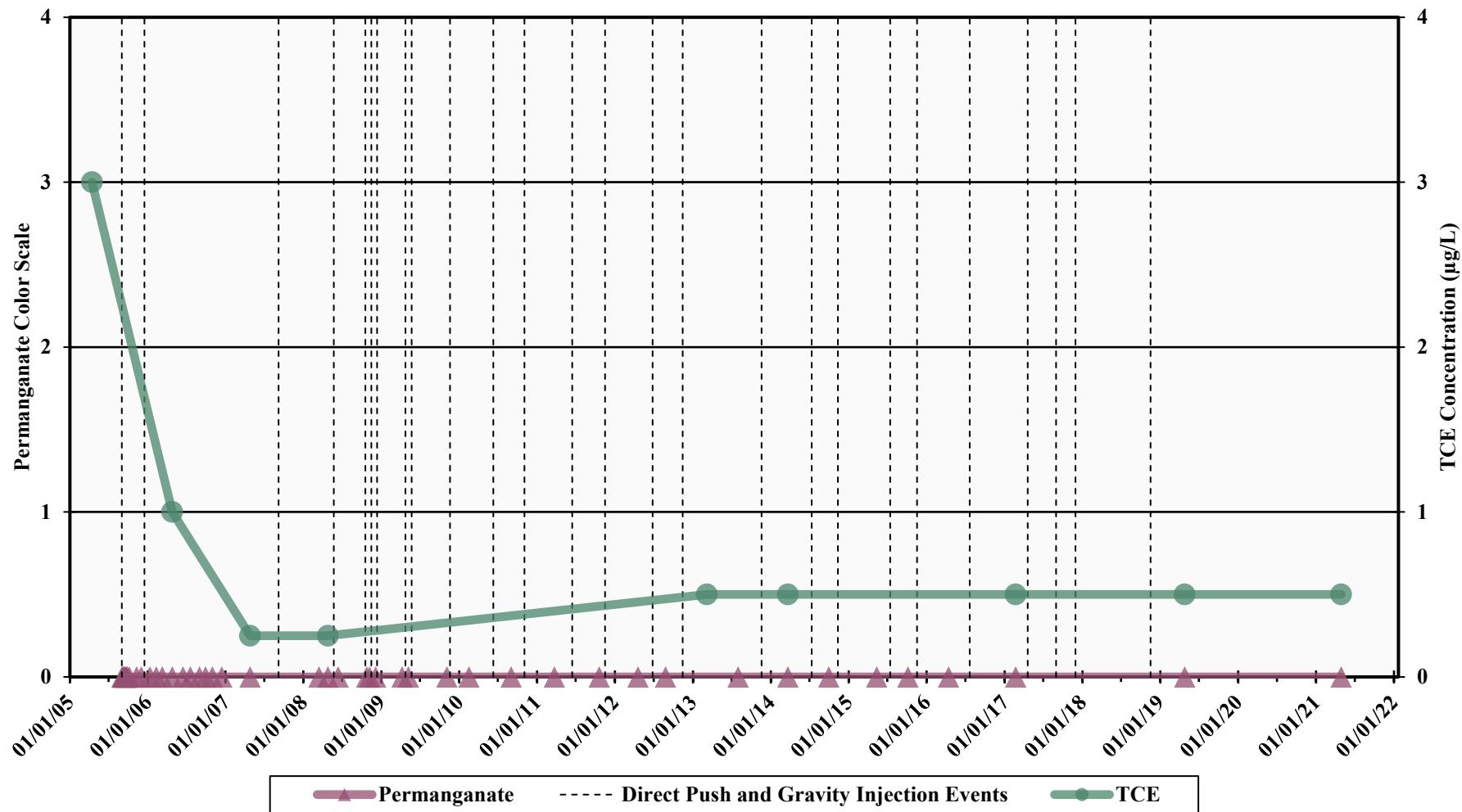
WELL MW-213S
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

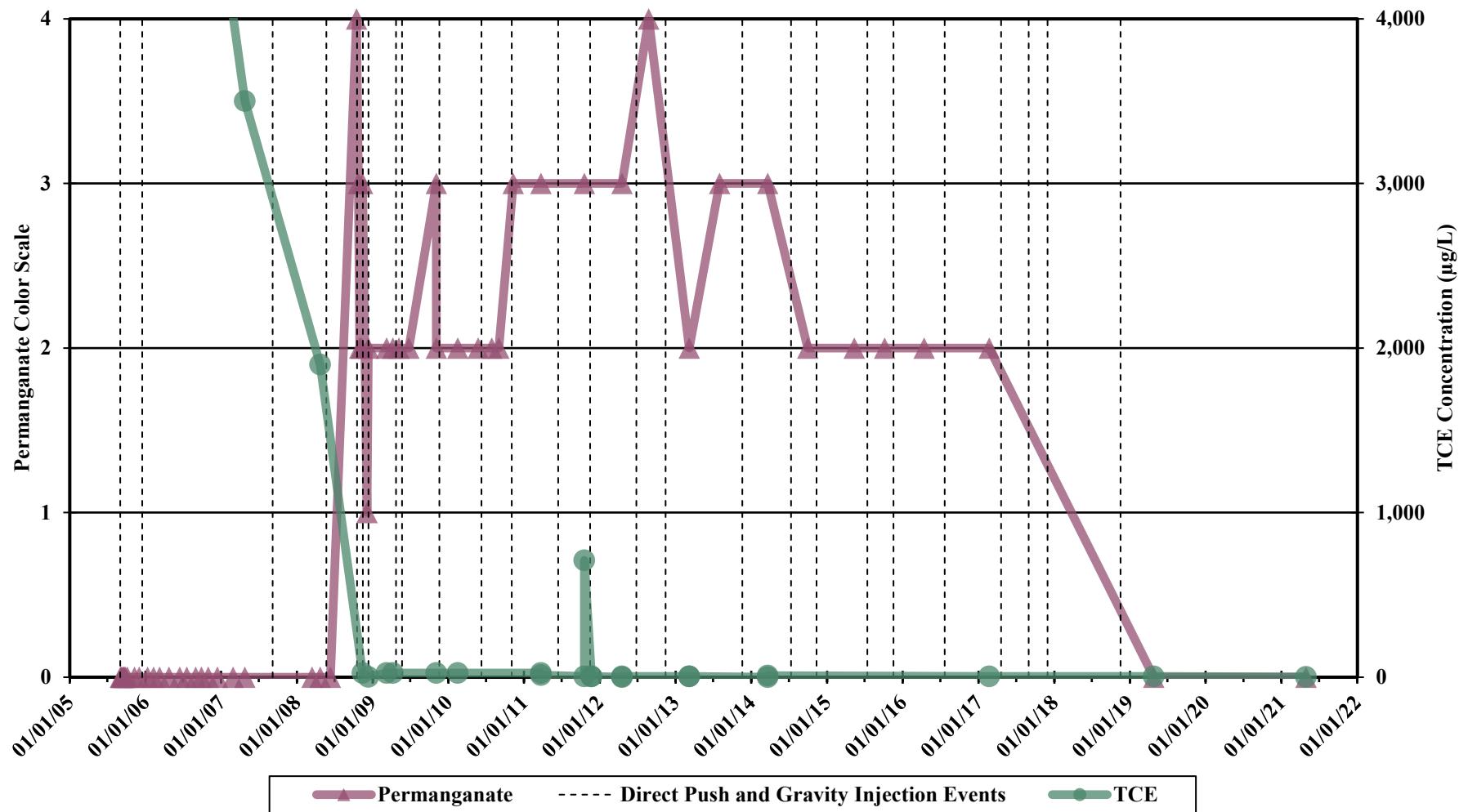
WELL MW-214S
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

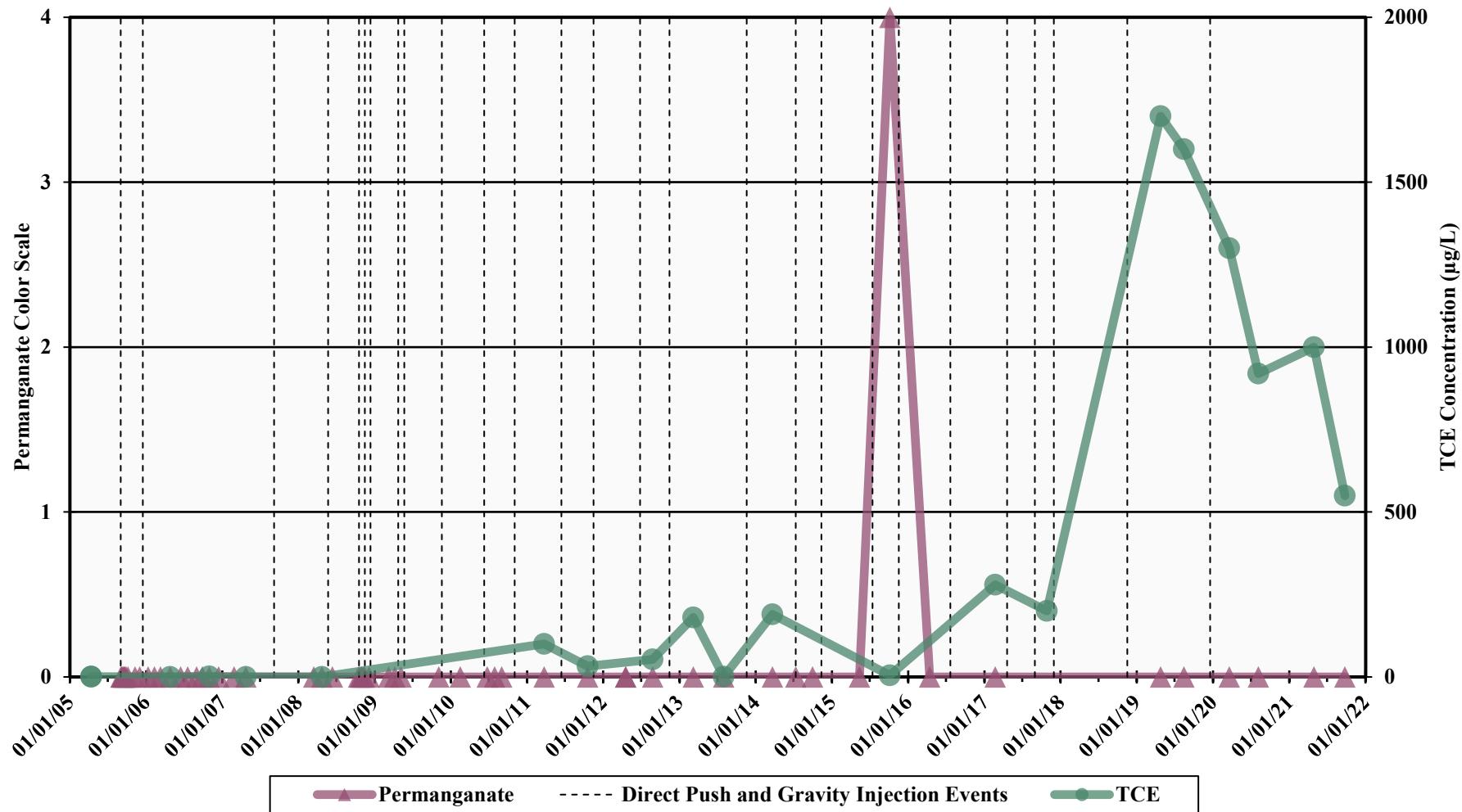
WELL MW-215S
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

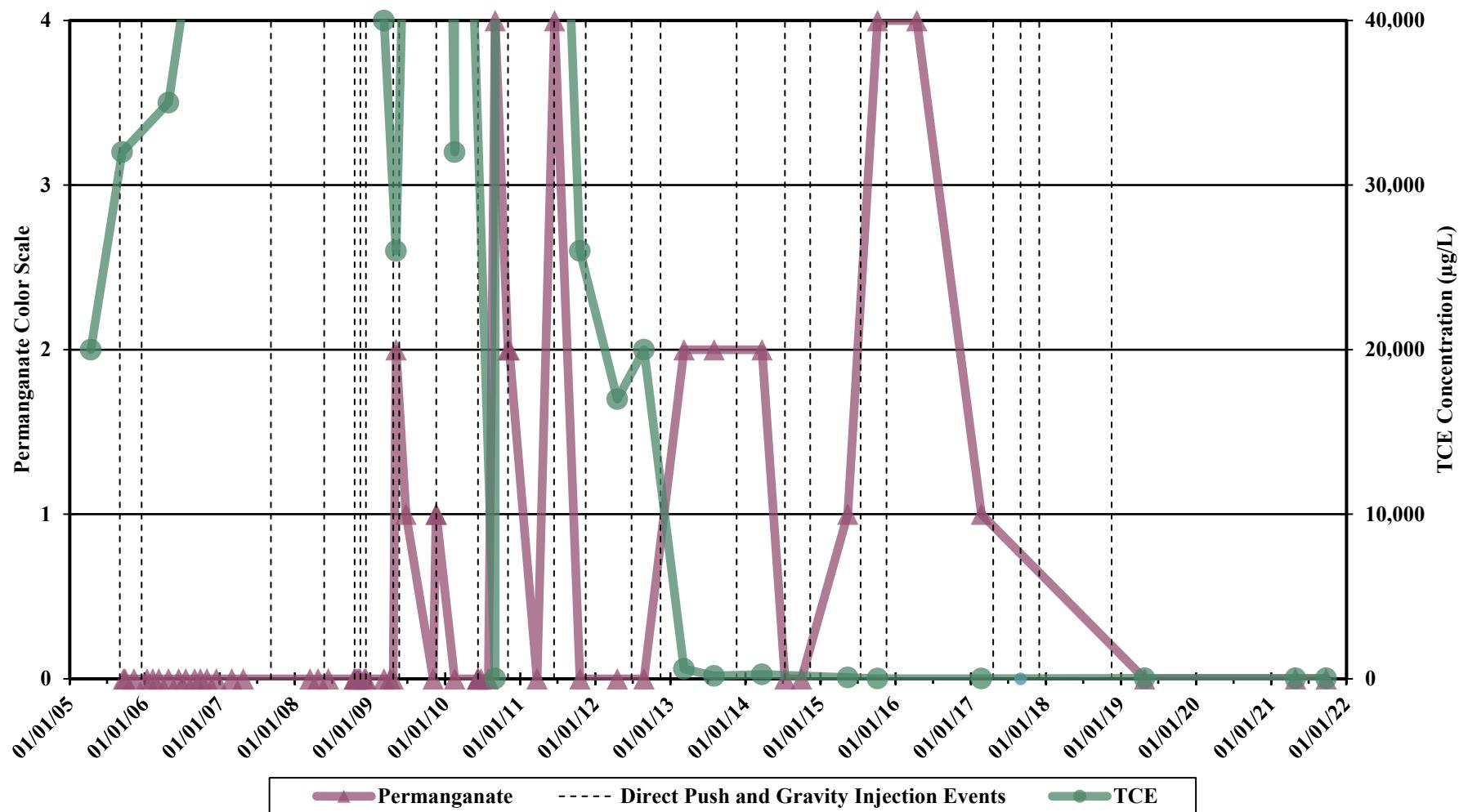
WELL MW-215M
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

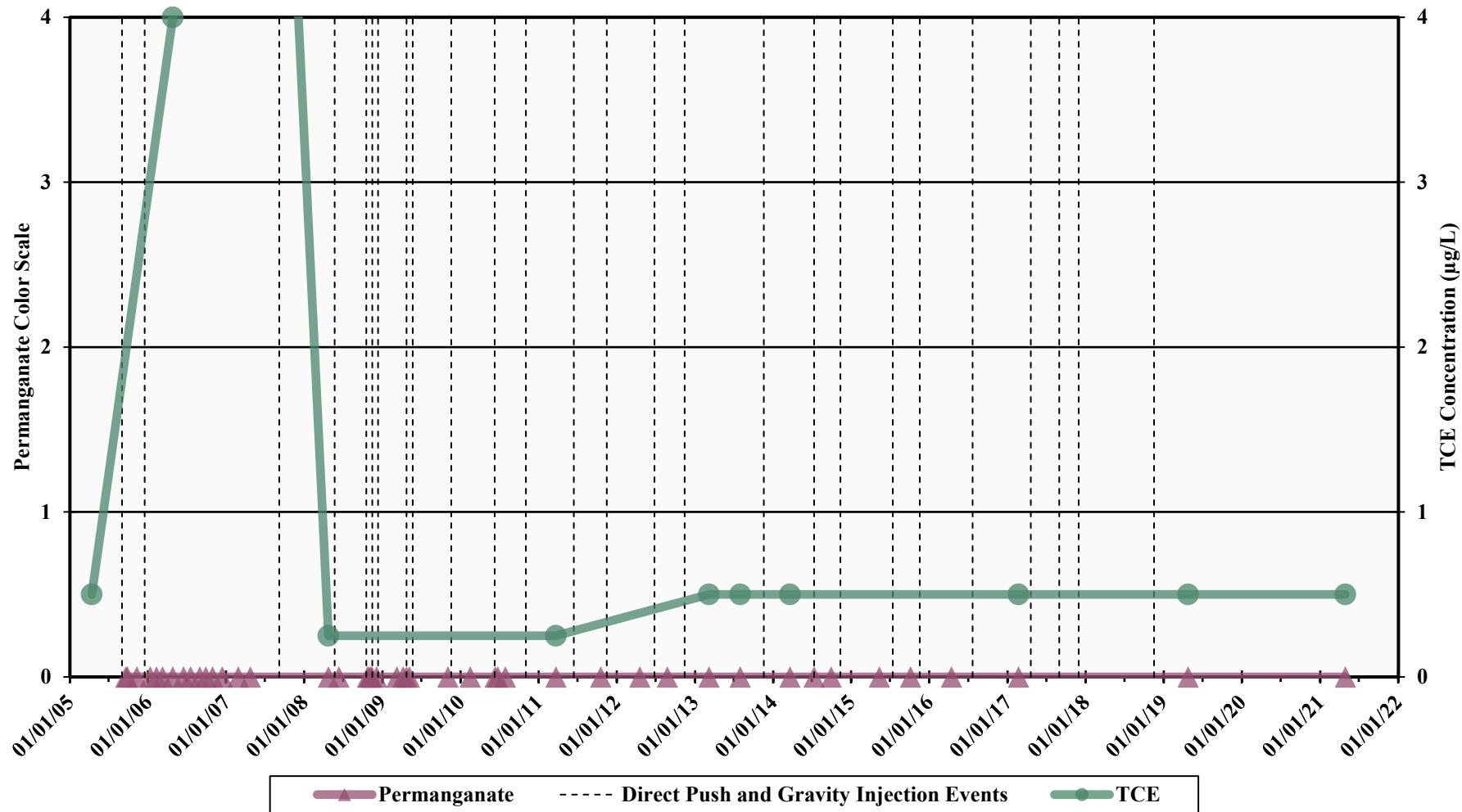
WELL MW-216S
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

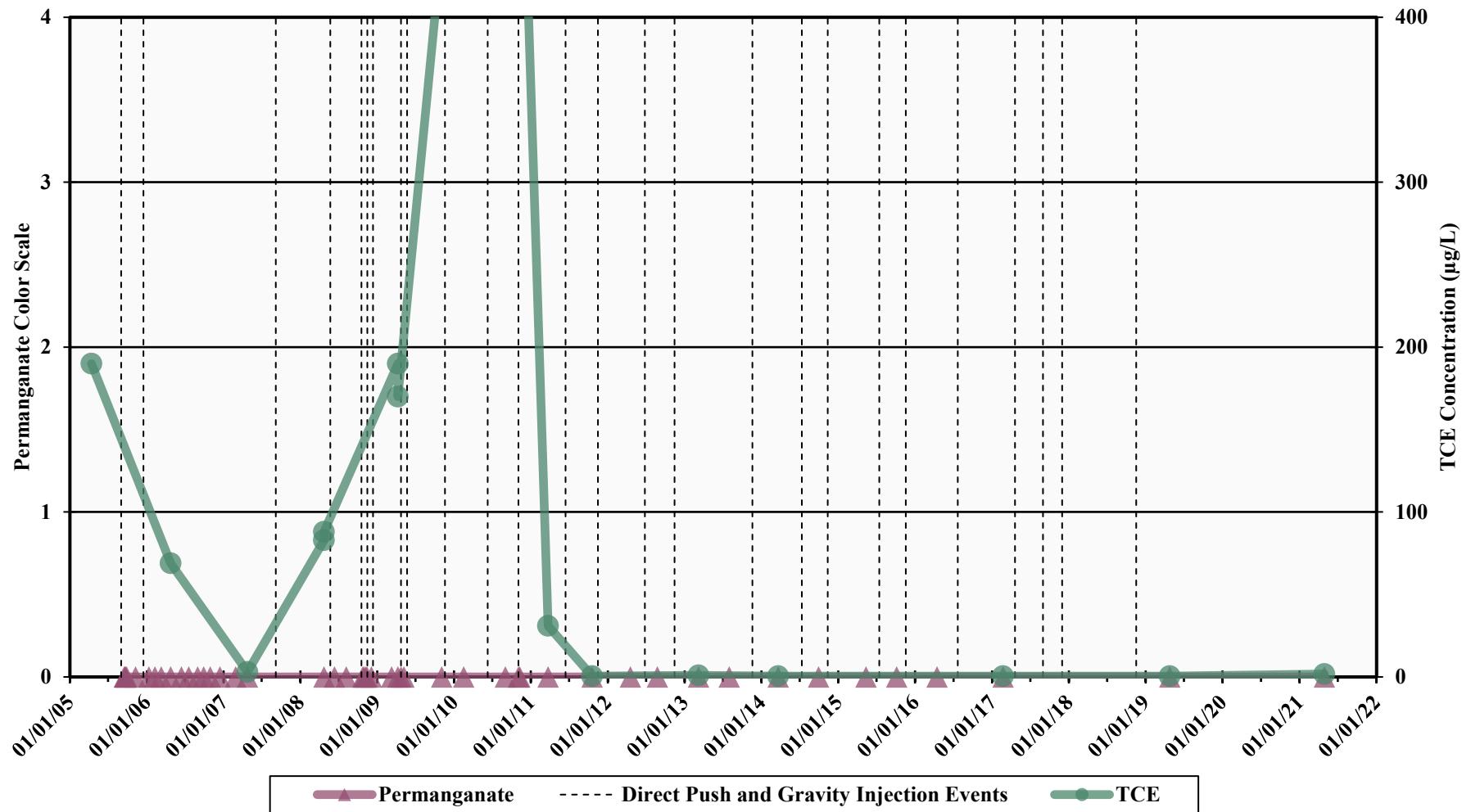
WELL MW-216M
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

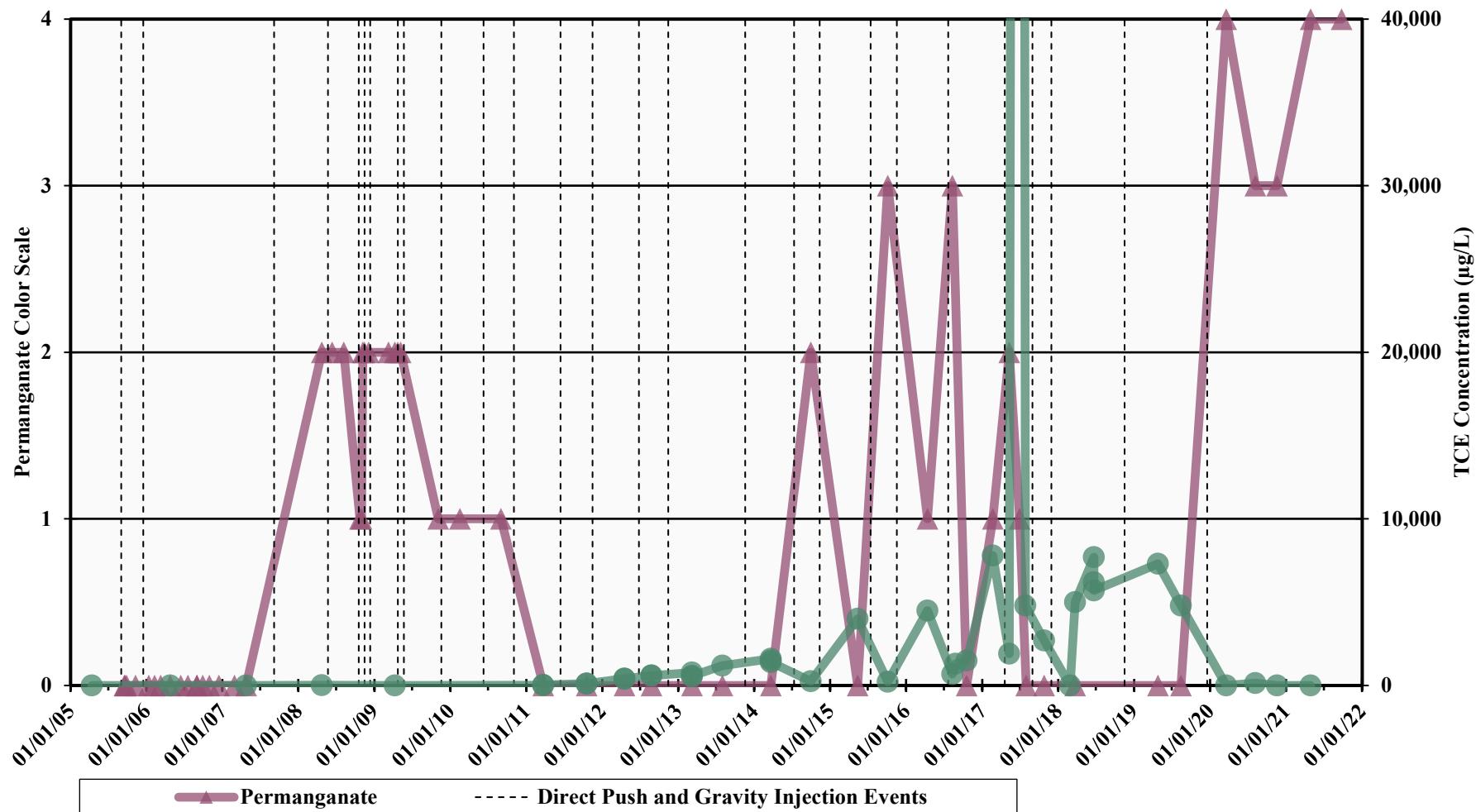
WELL MW-217S
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. µg/L = micrograms per liter.

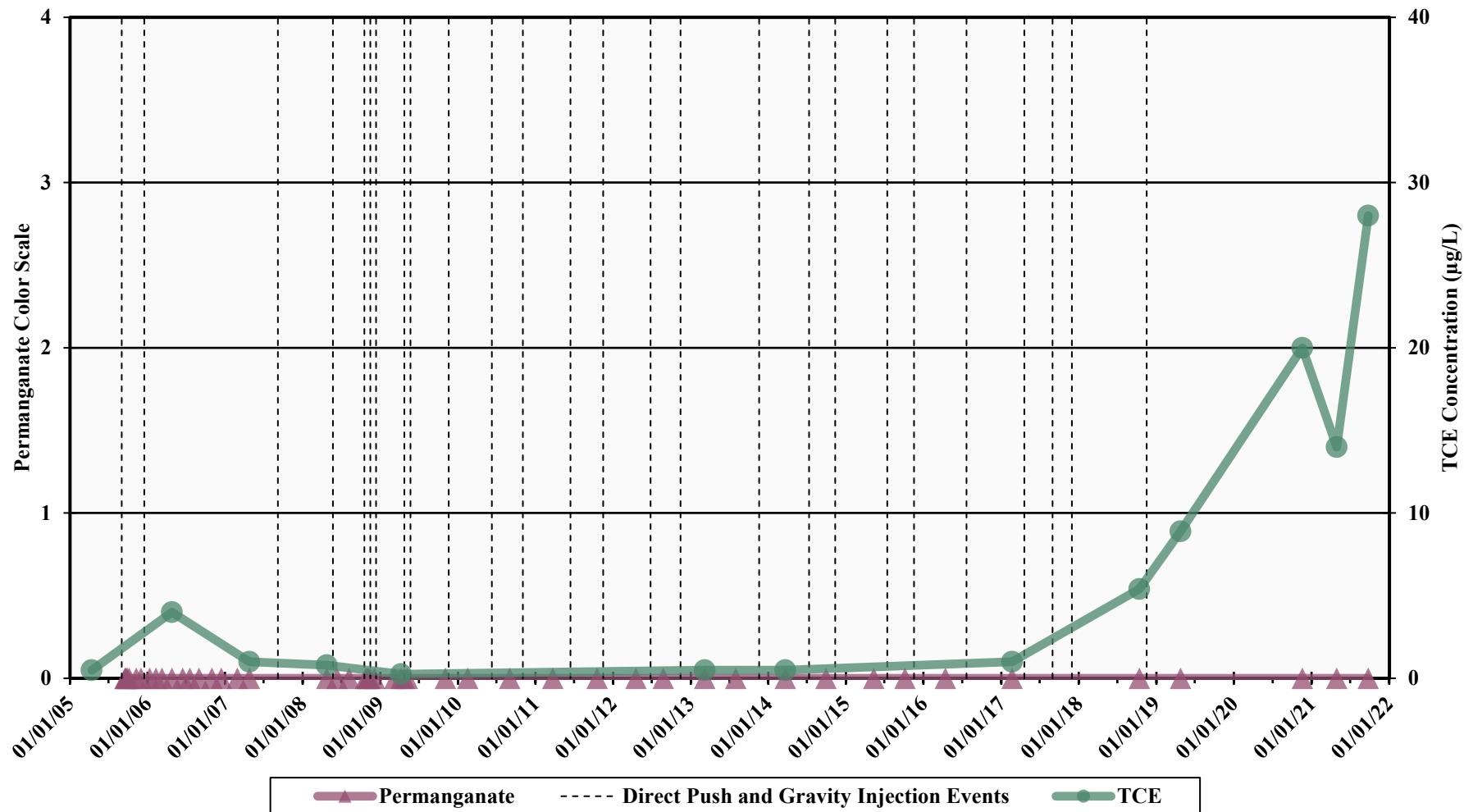
WELL MW-217M
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

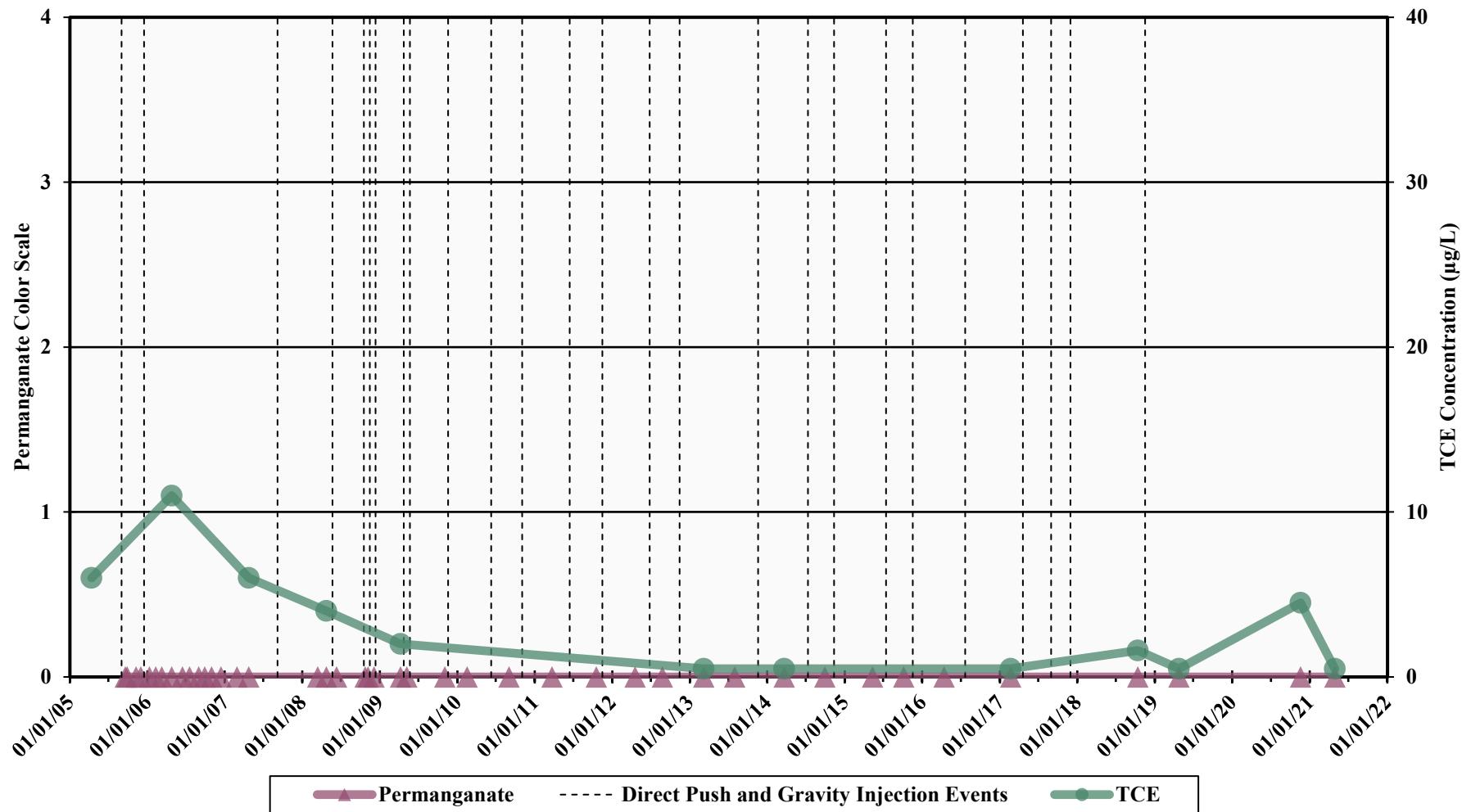
WELL MW-218M
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. µg/L = micrograms per liter.

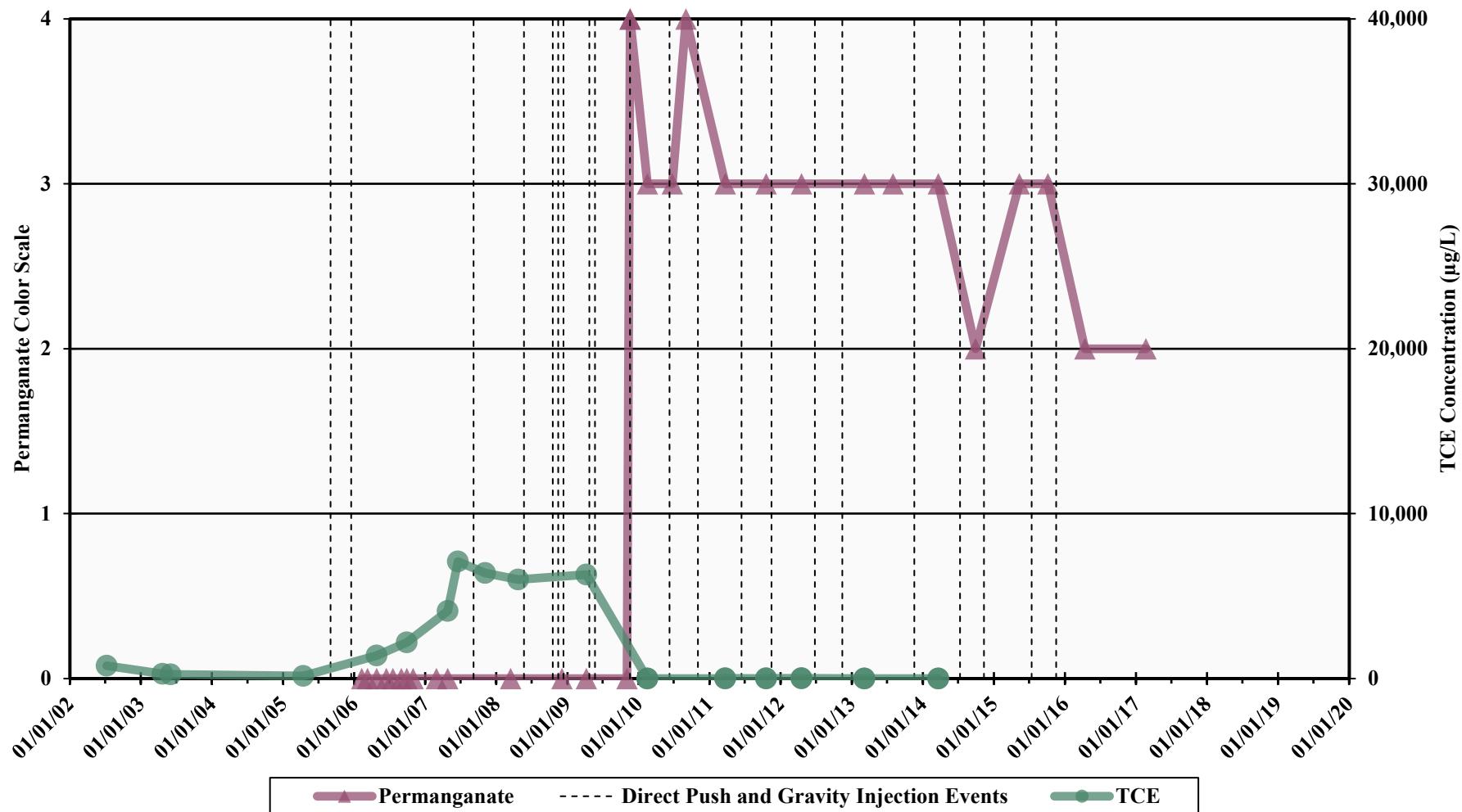
WELL MW-219M
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

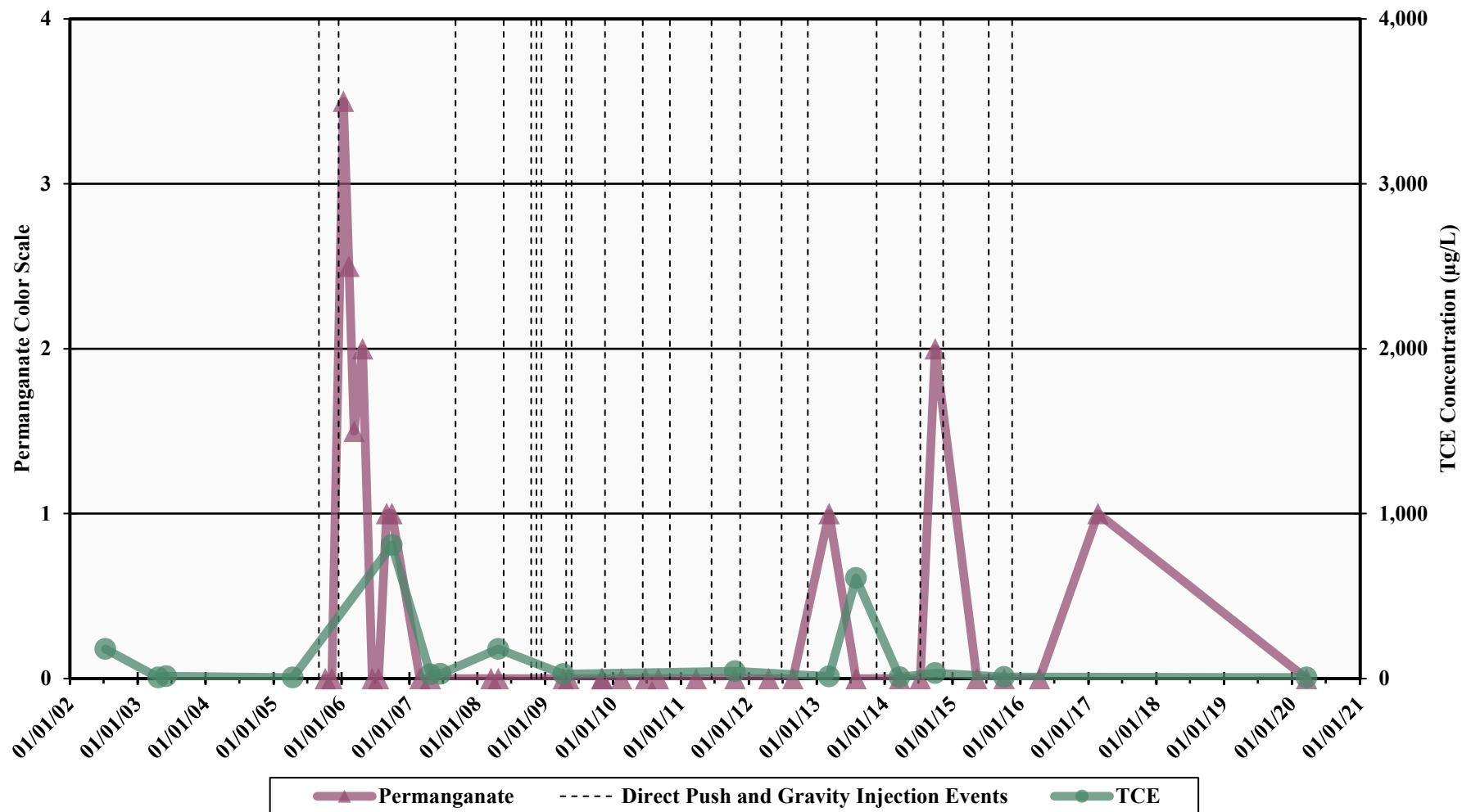
MW-13
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME IN SHALLOW WELLS



NOTES:

1. TCE = trichloroethylene.
2. $\mu\text{g/L}$ = micrograms per liter.

MW-014S
SODIUM PERMANGANATE AND TCE CONCENTRATIONS VS. TIME IN SHALLOW WELLS



NOTES:

1. TCE = trichloroethylene.
2. µg/L = micrograms per liter.



ANALYTICAL REPORT

Lab Number:	L2122740
Client:	GeoInsight One Monarch Drive Littleton, MA 01460
ATTN:	Cam Simmons
Phone:	(978) 679-1600
Project Name:	60 OLYMPICS
Project Number:	2491
Report Date:	05/13/21

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2122740-01	MW-2003	WATER	WOBURN, MA	04/28/21 09:00	05/03/21
L2122740-02	MW-200D	WATER	WOBURN, MA	04/28/21 09:05	05/03/21
L2122740-03	MW-201S	WATER	WOBURN, MA	04/28/21 09:10	05/03/21
L2122740-04	MW-201D	WATER	WOBURN, MA	04/28/21 09:15	05/03/21
L2122740-05	MW-202S	WATER	WOBURN, MA	04/28/21 09:20	05/03/21
L2122740-06	MW-202D	WATER	WOBURN, MA	04/28/21 09:25	05/03/21
L2122740-07	MW-203S	WATER	WOBURN, MA	04/28/21 09:30	05/03/21
L2122740-08	MW-204S	WATER	WOBURN, MA	04/28/21 09:40	05/03/21
L2122740-09	MW-204D	WATER	WOBURN, MA	04/28/21 09:45	05/03/21
L2122740-10	MW-205S	WATER	WOBURN, MA	04/28/21 10:35	05/03/21
L2122740-11	MW-205D	WATER	WOBURN, MA	04/28/21 10:40	05/03/21
L2122740-12	MW-206S	WATER	WOBURN, MA	04/28/21 10:45	05/03/21
L2122740-13	MW-206D	WATER	WOBURN, MA	04/28/21 10:50	05/03/21
L2122740-14	MW-207S	WATER	WOBURN, MA	04/28/21 10:55	05/03/21
L2122740-15	MW-207D	WATER	WOBURN, MA	04/28/21 11:00	05/03/21
L2122740-16	MW-208S	WATER	WOBURN, MA	04/28/21 11:05	05/03/21
L2122740-17	MW-208D	WATER	WOBURN, MA	04/28/21 11:10	05/03/21
L2122740-18	MW-209S	WATER	WOBURN, MA	04/28/21 11:15	05/03/21
L2122740-19	MW-209D	WATER	WOBURN, MA	04/28/21 11:20	05/03/21
L2122740-20	MW-210S	WATER	WOBURN, MA	04/28/21 12:15	05/03/21
L2122740-21	MW-210D	WATER	WOBURN, MA	04/28/21 12:20	05/03/21
L2122740-22	MW-211D	WATER	WOBURN, MA	04/28/21 12:25	05/03/21
L2122740-23	MW-212S	WATER	WOBURN, MA	04/28/21 12:50	05/03/21
P20220124	MW-212M	WATER	WOBURN, MA	04/28/21 09:50	05/03/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2122740-25	MW-212D	WATER	WOBURN, MA	04/28/21 09:55	05/03/21
L2122740-26	MW-213S	WATER	WOBURN, MA	04/28/21 10:05	05/03/21
L2122740-27	MW-213M	WATER	WOBURN, MA	04/28/21 10:10	05/03/21
L2122740-28	MW-231D	WATER	WOBURN, MA	04/28/21 10:00	05/03/21
L2122740-29	MW-214S	WATER	WOBURN, MA	04/28/21 10:15	05/03/21
L2122740-30	MW-214D	WATER	WOBURN, MA	04/28/21 10:25	05/03/21
L2122740-31	MW-215S	WATER	WOBURN, MA	04/28/21 11:25	05/03/21
L2122740-32	MW-215M	WATER	WOBURN, MA	04/28/21 11:30	05/03/21
L2122740-33	MW-215D	WATER	WOBURN, MA	04/28/21 11:35	05/03/21
L2122740-34	MW-216S	WATER	WOBURN, MA	04/28/21 11:40	05/03/21
L2122740-35	MW-216M	WATER	WOBURN, MA	04/28/21 11:42	05/03/21
L2122740-36	MW-216D	WATER	WOBURN, MA	04/28/21 11:45	05/03/21
L2122740-37	MW-217S	WATER	WOBURN, MA	04/28/21 11:50	05/03/21
L2122740-38	MW-217M	WATER	WOBURN, MA	04/28/21 11:55	05/03/21
L2122740-39	MW-217D	WATER	WOBURN, MA	04/28/21 12:00	05/03/21
L2122740-40	MW-218S	WATER	WOBURN, MA	04/28/21 12:55	05/03/21
L2122740-41	MW-218M	WATER	WOBURN, MA	04/28/21 13:00	05/03/21
L2122740-42	MW-218D	WATER	WOBURN, MA	04/28/21 13:05	05/03/21
L2122740-43	MW-219S	WATER	WOBURN, MA	04/28/21 13:10	05/03/21
L2122740-44	MW-219M	WATER	WOBURN, MA	04/28/21 13:15	05/03/21
L2122740-45	MW-219D	WATER	WOBURN, MA	04/28/21 13:20	05/03/21
L2122740-46	MW-220M	WATER	WOBURN, MA	04/28/21 13:25	05/03/21
L2122740-47	MW-220D	WATER	WOBURN, MA	04/28/21 13:30	05/03/21
L2122740-48	OL-002	WATER	WOBURN, MA	04/28/21 12:30	05/03/21
L2122740-49	OL-2M	WATER	WOBURN, MA	04/28/21 12:35	05/03/21
L2122740-50	OL-003	WATER	WOBURN, MA	04/28/21 12:40	05/03/21
L2122740-51	OL-3M	WATER	WOBURN, MA	04/28/21 12:45	05/03/21

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

L2122740-09: The sample identified as "MW-205D" on the chain of custody was identified as "MW-204D" on the container label. At the client's request, the sample is reported as "MW-204D".

Volatile Organics

L2122740-01D, -05D, -08D, -09D, -15D, -17D, -18D, -31D, -34D, and -49D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

L2122740-02D and -06D: The sample has elevated detection limits due to the dilution required by the sample matrix.(purple)

In reference to question G:

L2122740-01D, -02D, -03D, -05D, -06D, -08D, -09D, -11D, -13D, -14D, -15D, -17D, -18D, -19D, -20D, -21D, -22D, -23D, -26D, -31D, -32D, -34D, -49D and -50D: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L2122740-01D, -02D, -03D, -04, -06D, -07, and -08D: The associated continuing calibration standard is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

L2122740-05D, -09D, -10, -11D, -12, -13D, -14D, -16, -17D, -18D, -20D, and -21D: The associated continuing calibration standard is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

L2122740-30, -31D, -32D, -33, -34D, -35, -36, -37, -39, -41, -42, -43, -44, -45, -46, -47, and -49D: The associated continuing calibration standard is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

Project Name: 60 OLYMPICS
Project Number: 2491

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Case Narrative (continued)

L2122740-19D, -22D, -23D, -24, -25, -26D, -27, -28, -29, and -40: The associated continuing calibration standard is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

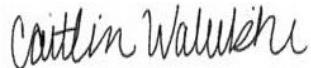
L2122740-15D, -38, -48, -50D, and -51: The associated continuing calibration standard is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

In reference to question I:

All samples were analyzed for a subset of MCP analytes per client request.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Caitlin Walukevich

Title: Technical Director/Representative

Date: 05/13/21

QC OUTLIER SUMMARY REPORT

Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Volatile Organics - Westborough Lab								
8260C	MW-200D	L2122740-02 D	Dibromofluoromethane	Surrogate	131	70-130	-	potential high bias
8260C	MW-204S	L2122740-08 D	Dibromofluoromethane	Surrogate	134	70-130	-	potential high bias
8260C	Batch QC	WG1496570-3	Dichlorodifluoromethane	LCS	53	70-130	01-04,06-08	potential low bias
8260C	Batch QC	WG1496570-4	Dichlorodifluoromethane	LCSD	58	70-130	01-04,06-08	potential low bias
8260C	Batch QC	WG1496744-3	Dichlorodifluoromethane	LCS	57	70-130	05,09-14,16-18,20-21	potential low bias
8260C	Batch QC	WG1496744-4	Dichlorodifluoromethane	LCSD	59	70-130	05,09-14,16-18,20-21	potential low bias
8260C	Batch QC	WG1497008-3	Vinyl chloride	LCS	150	70-130	30-37,39,41-47,49	potential high bias
8260C	Batch QC	WG1497008-3	Chloroethane	LCS	150	70-130	30-37,39,41-47,49	potential high bias
8260C	Batch QC	WG1497008-4	Dichlorodifluoromethane	LCSD	22	20	30-37,39,41-47,49	non-directional bias
8260C	Batch QC	WG1497028-3	Dichlorodifluoromethane	LCS	54	70-130	19,22-29,40	potential low bias
8260C	Batch QC	WG1497028-4	Dichlorodifluoromethane	LCSD	53	70-130	19,22-29,40	potential low bias

ORGANICS



VOLATILES



Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-01	D	Date Collected:	04/28/21 09:00
Client ID:	MW-2003		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/08/21 09:25
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	100	--	50	
1,1-Dichloroethane	ND	ug/l	50	--	50	
Chloroform	ND	ug/l	50	--	50	
Carbon tetrachloride	ND	ug/l	50	--	50	
1,2-Dichloropropane	ND	ug/l	50	--	50	
Dibromochloromethane	ND	ug/l	50	--	50	
1,1,2-Trichloroethane	ND	ug/l	50	--	50	
Tetrachloroethene	ND	ug/l	50	--	50	
Chlorobenzene	ND	ug/l	50	--	50	
1,2-Dichloroethane	ND	ug/l	50	--	50	
1,1,1-Trichloroethane	130	ug/l	50	--	50	
Bromodichloromethane	ND	ug/l	50	--	50	
trans-1,3-Dichloropropene	ND	ug/l	20	--	50	
cis-1,3-Dichloropropene	ND	ug/l	20	--	50	
1,3-Dichloropropene, Total	ND	ug/l	20	--	50	
Bromoform	ND	ug/l	100	--	50	
1,1,2,2-Tetrachloroethane	ND	ug/l	50	--	50	
Chloromethane	ND	ug/l	100	--	50	
Vinyl chloride	ND	ug/l	50	--	50	
Chloroethane	ND	ug/l	100	--	50	
1,1-Dichloroethene	ND	ug/l	50	--	50	
trans-1,2-Dichloroethene	ND	ug/l	50	--	50	
Trichloroethene	190	ug/l	50	--	50	
1,2-Dichlorobenzene	ND	ug/l	50	--	50	
1,3-Dichlorobenzene	ND	ug/l	50	--	50	
1,4-Dichlorobenzene	ND	ug/l	50	--	50	
cis-1,2-Dichloroethene	ND	ug/l	50	--	50	
1,2-Dichloroethene, Total	ND	ug/l	50	--	50	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-01	D	Date Collected:	04/28/21 09:00
Client ID:	MW-2003		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	100	--	50
1,2-Dibromoethane	ND		ug/l	100	--	50
1,3-Dichloropropane	ND		ug/l	100	--	50
1,1,1,2-Tetrachloroethane	ND		ug/l	50	--	50
o-Chlorotoluene	ND		ug/l	100	--	50
p-Chlorotoluene	ND		ug/l	100	--	50
Hexachlorobutadiene	ND		ug/l	30	--	50
1,2,4-Trichlorobenzene	ND		ug/l	100	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	130		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-02 D
Client ID: MW-200D
Sample Location: WOBURN, MA

Date Collected: 04/28/21 09:05
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/08/21 12:08
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	400	--	200	
1,1-Dichloroethane	ND	ug/l	200	--	200	
Chloroform	ND	ug/l	200	--	200	
Carbon tetrachloride	ND	ug/l	200	--	200	
1,2-Dichloropropane	ND	ug/l	200	--	200	
Dibromochloromethane	ND	ug/l	200	--	200	
1,1,2-Trichloroethane	ND	ug/l	200	--	200	
Tetrachloroethene	ND	ug/l	200	--	200	
Chlorobenzene	ND	ug/l	200	--	200	
1,2-Dichloroethane	ND	ug/l	200	--	200	
1,1,1-Trichloroethane	ND	ug/l	200	--	200	
Bromodichloromethane	ND	ug/l	200	--	200	
trans-1,3-Dichloropropene	ND	ug/l	80	--	200	
cis-1,3-Dichloropropene	ND	ug/l	80	--	200	
1,3-Dichloropropene, Total	ND	ug/l	80	--	200	
Bromoform	ND	ug/l	400	--	200	
1,1,2,2-Tetrachloroethane	ND	ug/l	200	--	200	
Chloromethane	ND	ug/l	400	--	200	
Vinyl chloride	ND	ug/l	200	--	200	
Chloroethane	ND	ug/l	400	--	200	
1,1-Dichloroethene	ND	ug/l	200	--	200	
trans-1,2-Dichloroethene	ND	ug/l	200	--	200	
Trichloroethene	ND	ug/l	200	--	200	
1,2-Dichlorobenzene	ND	ug/l	200	--	200	
1,3-Dichlorobenzene	ND	ug/l	200	--	200	
1,4-Dichlorobenzene	ND	ug/l	200	--	200	
cis-1,2-Dichloroethene	ND	ug/l	200	--	200	
1,2-Dichloroethene, Total	ND	ug/l	200	--	200	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-02	D	Date Collected:	04/28/21 09:05
Client ID:	MW-200D		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	400	--	200
1,2-Dibromoethane	ND		ug/l	400	--	200
1,3-Dichloropropane	ND		ug/l	400	--	200
1,1,1,2-Tetrachloroethane	ND		ug/l	200	--	200
o-Chlorotoluene	ND		ug/l	400	--	200
p-Chlorotoluene	ND		ug/l	400	--	200
Hexachlorobutadiene	ND		ug/l	120	--	200
1,2,4-Trichlorobenzene	ND		ug/l	400	--	200

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	131	Q	70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-03	D	Date Collected:	04/28/21 09:10
Client ID:	MW-201S		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/08/21 10:06
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	10	--	5	
1,1-Dichloroethane	ND	ug/l	5.0	--	5	
Chloroform	ND	ug/l	5.0	--	5	
Carbon tetrachloride	ND	ug/l	5.0	--	5	
1,2-Dichloropropane	ND	ug/l	5.0	--	5	
Dibromochloromethane	ND	ug/l	5.0	--	5	
1,1,2-Trichloroethane	ND	ug/l	5.0	--	5	
Tetrachloroethene	ND	ug/l	5.0	--	5	
Chlorobenzene	ND	ug/l	5.0	--	5	
1,2-Dichloroethane	ND	ug/l	5.0	--	5	
1,1,1-Trichloroethane	ND	ug/l	5.0	--	5	
Bromodichloromethane	ND	ug/l	5.0	--	5	
trans-1,3-Dichloropropene	ND	ug/l	2.0	--	5	
cis-1,3-Dichloropropene	ND	ug/l	2.0	--	5	
1,3-Dichloropropene, Total	ND	ug/l	2.0	--	5	
Bromoform	ND	ug/l	10	--	5	
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	--	5	
Chloromethane	ND	ug/l	10	--	5	
Vinyl chloride	ND	ug/l	5.0	--	5	
Chloroethane	ND	ug/l	10	--	5	
1,1-Dichloroethene	ND	ug/l	5.0	--	5	
trans-1,2-Dichloroethene	ND	ug/l	5.0	--	5	
Trichloroethene	950	ug/l	5.0	--	5	
1,2-Dichlorobenzene	ND	ug/l	5.0	--	5	
1,3-Dichlorobenzene	ND	ug/l	5.0	--	5	
1,4-Dichlorobenzene	ND	ug/l	5.0	--	5	
cis-1,2-Dichloroethene	ND	ug/l	5.0	--	5	
1,2-Dichloroethene, Total	ND	ug/l	5.0	--	5	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-03	D	Date Collected:	04/28/21 09:10
Client ID:	MW-201S		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	10	--	5
1,2-Dibromoethane	ND		ug/l	10	--	5
1,3-Dichloropropane	ND		ug/l	10	--	5
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	--	5
o-Chlorotoluene	ND		ug/l	10	--	5
p-Chlorotoluene	ND		ug/l	10	--	5
Hexachlorobutadiene	ND		ug/l	3.0	--	5
1,2,4-Trichlorobenzene	ND		ug/l	10	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	121		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-04
Client ID: MW-201D
Sample Location: WOBURN, MA

Date Collected: 04/28/21 09:15
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/08/21 08:44
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	1.2	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	ND	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	190	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	11	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	11	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-04
 Client ID: MW-201D
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 09:15
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	116		70-130

Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-05
 Client ID: MW-202S
 Sample Location: WOBURN, MA

D

Date Collected: 04/28/21 09:20
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 05/10/21 09:17
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	50	--	25	
1,1-Dichloroethane	ND	ug/l	25	--	25	
Chloroform	30	ug/l	25	--	25	
Carbon tetrachloride	ND	ug/l	25	--	25	
1,2-Dichloropropane	ND	ug/l	25	--	25	
Dibromochloromethane	ND	ug/l	25	--	25	
1,1,2-Trichloroethane	ND	ug/l	25	--	25	
Tetrachloroethene	ND	ug/l	25	--	25	
Chlorobenzene	ND	ug/l	25	--	25	
1,2-Dichloroethane	ND	ug/l	25	--	25	
1,1,1-Trichloroethane	27	ug/l	25	--	25	
Bromodichloromethane	ND	ug/l	25	--	25	
trans-1,3-Dichloropropene	ND	ug/l	10	--	25	
cis-1,3-Dichloropropene	ND	ug/l	10	--	25	
1,3-Dichloropropene, Total	ND	ug/l	10	--	25	
Bromoform	ND	ug/l	50	--	25	
1,1,2,2-Tetrachloroethane	ND	ug/l	25	--	25	
Chloromethane	ND	ug/l	50	--	25	
Vinyl chloride	ND	ug/l	25	--	25	
Chloroethane	ND	ug/l	50	--	25	
1,1-Dichloroethene	ND	ug/l	25	--	25	
trans-1,2-Dichloroethene	ND	ug/l	25	--	25	
Trichloroethene	ND	ug/l	25	--	25	
1,2-Dichlorobenzene	ND	ug/l	25	--	25	
1,3-Dichlorobenzene	ND	ug/l	25	--	25	
1,4-Dichlorobenzene	ND	ug/l	25	--	25	
cis-1,2-Dichloroethene	ND	ug/l	25	--	25	
1,2-Dichloroethene, Total	ND	ug/l	25	--	25	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-05	D	Date Collected:	04/28/21 09:20
Client ID:	MW-202S		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	50	--	25
1,2-Dibromoethane	ND		ug/l	50	--	25
1,3-Dichloropropane	ND		ug/l	50	--	25
1,1,1,2-Tetrachloroethane	ND		ug/l	25	--	25
o-Chlorotoluene	ND		ug/l	50	--	25
p-Chlorotoluene	ND		ug/l	50	--	25
Hexachlorobutadiene	ND		ug/l	15	--	25
1,2,4-Trichlorobenzene	ND		ug/l	50	--	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	114		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-06 D
Client ID: MW-202D
Sample Location: WOBURN, MA

Date Collected: 04/28/21 09:25
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/08/21 12:49
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	400	--	200	
1,1-Dichloroethane	ND	ug/l	200	--	200	
Chloroform	ND	ug/l	200	--	200	
Carbon tetrachloride	ND	ug/l	200	--	200	
1,2-Dichloropropane	ND	ug/l	200	--	200	
Dibromochloromethane	ND	ug/l	200	--	200	
1,1,2-Trichloroethane	ND	ug/l	200	--	200	
Tetrachloroethene	ND	ug/l	200	--	200	
Chlorobenzene	ND	ug/l	200	--	200	
1,2-Dichloroethane	ND	ug/l	200	--	200	
1,1,1-Trichloroethane	ND	ug/l	200	--	200	
Bromodichloromethane	ND	ug/l	200	--	200	
trans-1,3-Dichloropropene	ND	ug/l	80	--	200	
cis-1,3-Dichloropropene	ND	ug/l	80	--	200	
1,3-Dichloropropene, Total	ND	ug/l	80	--	200	
Bromoform	ND	ug/l	400	--	200	
1,1,2,2-Tetrachloroethane	ND	ug/l	200	--	200	
Chloromethane	ND	ug/l	400	--	200	
Vinyl chloride	ND	ug/l	200	--	200	
Chloroethane	ND	ug/l	400	--	200	
1,1-Dichloroethene	ND	ug/l	200	--	200	
trans-1,2-Dichloroethene	ND	ug/l	200	--	200	
Trichloroethene	ND	ug/l	200	--	200	
1,2-Dichlorobenzene	ND	ug/l	200	--	200	
1,3-Dichlorobenzene	ND	ug/l	200	--	200	
1,4-Dichlorobenzene	ND	ug/l	200	--	200	
cis-1,2-Dichloroethene	ND	ug/l	200	--	200	
1,2-Dichloroethene, Total	ND	ug/l	200	--	200	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-06	D	Date Collected:	04/28/21 09:25
Client ID:	MW-202D		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	400	--	200
1,2-Dibromoethane	ND		ug/l	400	--	200
1,3-Dichloropropane	ND		ug/l	400	--	200
1,1,1,2-Tetrachloroethane	ND		ug/l	200	--	200
o-Chlorotoluene	ND		ug/l	400	--	200
p-Chlorotoluene	ND		ug/l	400	--	200
Hexachlorobutadiene	ND		ug/l	120	--	200
1,2,4-Trichlorobenzene	ND		ug/l	400	--	200

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	130		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-07
Client ID: MW-203S
Sample Location: WOBURN, MA

Date Collected: 04/28/21 09:30
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/08/21 08:03
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	ND	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	8.8	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	6.1	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	6.1	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-07
 Client ID: MW-203S
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 09:30
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	125		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-08	D	Date Collected:	04/28/21 09:40
Client ID:	MW-204S		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/08/21 11:27
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	10	--	5	
1,1-Dichloroethane	ND	ug/l	5.0	--	5	
Chloroform	ND	ug/l	5.0	--	5	
Carbon tetrachloride	ND	ug/l	5.0	--	5	
1,2-Dichloropropane	ND	ug/l	5.0	--	5	
Dibromochloromethane	ND	ug/l	5.0	--	5	
1,1,2-Trichloroethane	ND	ug/l	5.0	--	5	
Tetrachloroethene	ND	ug/l	5.0	--	5	
Chlorobenzene	ND	ug/l	5.0	--	5	
1,2-Dichloroethane	ND	ug/l	5.0	--	5	
1,1,1-Trichloroethane	ND	ug/l	5.0	--	5	
Bromodichloromethane	ND	ug/l	5.0	--	5	
trans-1,3-Dichloropropene	ND	ug/l	2.0	--	5	
cis-1,3-Dichloropropene	ND	ug/l	2.0	--	5	
1,3-Dichloropropene, Total	ND	ug/l	2.0	--	5	
Bromoform	ND	ug/l	10	--	5	
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	--	5	
Chloromethane	ND	ug/l	10	--	5	
Vinyl chloride	ND	ug/l	5.0	--	5	
Chloroethane	ND	ug/l	10	--	5	
1,1-Dichloroethene	ND	ug/l	5.0	--	5	
trans-1,2-Dichloroethene	ND	ug/l	5.0	--	5	
Trichloroethene	ND	ug/l	5.0	--	5	
1,2-Dichlorobenzene	ND	ug/l	5.0	--	5	
1,3-Dichlorobenzene	ND	ug/l	5.0	--	5	
1,4-Dichlorobenzene	ND	ug/l	5.0	--	5	
cis-1,2-Dichloroethene	ND	ug/l	5.0	--	5	
1,2-Dichloroethene, Total	ND	ug/l	5.0	--	5	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-08 D
 Client ID: MW-204S
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 09:40
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	10	--	5
1,2-Dibromoethane	ND		ug/l	10	--	5
1,3-Dichloropropane	ND		ug/l	10	--	5
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	--	5
o-Chlorotoluene	ND		ug/l	10	--	5
p-Chlorotoluene	ND		ug/l	10	--	5
Hexachlorobutadiene	ND		ug/l	3.0	--	5
1,2,4-Trichlorobenzene	ND		ug/l	10	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	134	Q	70-130

Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-09
 Client ID: MW-204D
 Sample Location: WOBURN, MA

D

Date Collected: 04/28/21 09:45
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 05/10/21 12:07
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	200	--	100	
1,1-Dichloroethane	ND	ug/l	100	--	100	
Chloroform	ND	ug/l	100	--	100	
Carbon tetrachloride	ND	ug/l	100	--	100	
1,2-Dichloropropane	ND	ug/l	100	--	100	
Dibromochloromethane	ND	ug/l	100	--	100	
1,1,2-Trichloroethane	ND	ug/l	100	--	100	
Tetrachloroethene	ND	ug/l	100	--	100	
Chlorobenzene	ND	ug/l	100	--	100	
1,2-Dichloroethane	ND	ug/l	100	--	100	
1,1,1-Trichloroethane	ND	ug/l	100	--	100	
Bromodichloromethane	ND	ug/l	100	--	100	
trans-1,3-Dichloropropene	ND	ug/l	40	--	100	
cis-1,3-Dichloropropene	ND	ug/l	40	--	100	
1,3-Dichloropropene, Total	ND	ug/l	40	--	100	
Bromoform	ND	ug/l	200	--	100	
1,1,2,2-Tetrachloroethane	ND	ug/l	100	--	100	
Chloromethane	ND	ug/l	200	--	100	
Vinyl chloride	ND	ug/l	100	--	100	
Chloroethane	ND	ug/l	200	--	100	
1,1-Dichloroethene	ND	ug/l	100	--	100	
trans-1,2-Dichloroethene	ND	ug/l	100	--	100	
Trichloroethene	ND	ug/l	100	--	100	
1,2-Dichlorobenzene	ND	ug/l	100	--	100	
1,3-Dichlorobenzene	ND	ug/l	100	--	100	
1,4-Dichlorobenzene	ND	ug/l	100	--	100	
cis-1,2-Dichloroethene	ND	ug/l	100	--	100	
1,2-Dichloroethene, Total	ND	ug/l	100	--	100	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-09	D	Date Collected:	04/28/21 09:45
Client ID:	MW-204D		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	200	--	100
1,2-Dibromoethane	ND		ug/l	200	--	100
1,3-Dichloropropane	ND		ug/l	200	--	100
1,1,1,2-Tetrachloroethane	ND		ug/l	100	--	100
o-Chlorotoluene	ND		ug/l	200	--	100
p-Chlorotoluene	ND		ug/l	200	--	100
Hexachlorobutadiene	ND		ug/l	60	--	100
1,2,4-Trichlorobenzene	ND		ug/l	200	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	120		70-130

Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-10
 Client ID: MW-205S
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 10:35
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 05/10/21 10:00
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	1	
1,1-Dichloroethane	ND	ug/l	1.0	--	1	
Chloroform	ND	ug/l	1.0	--	1	
Carbon tetrachloride	ND	ug/l	1.0	--	1	
1,2-Dichloropropane	ND	ug/l	1.0	--	1	
Dibromochloromethane	ND	ug/l	1.0	--	1	
1,1,2-Trichloroethane	ND	ug/l	1.0	--	1	
Tetrachloroethene	ND	ug/l	1.0	--	1	
Chlorobenzene	ND	ug/l	1.0	--	1	
1,2-Dichloroethane	ND	ug/l	1.0	--	1	
1,1,1-Trichloroethane	ND	ug/l	1.0	--	1	
Bromodichloromethane	ND	ug/l	1.0	--	1	
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	1	
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	1	
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	1	
Bromoform	ND	ug/l	2.0	--	1	
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	1	
Chloromethane	ND	ug/l	2.0	--	1	
Vinyl chloride	22	ug/l	1.0	--	1	
Chloroethane	ND	ug/l	2.0	--	1	
1,1-Dichloroethene	ND	ug/l	1.0	--	1	
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	1	
Trichloroethene	2.9	ug/l	1.0	--	1	
1,2-Dichlorobenzene	ND	ug/l	1.0	--	1	
1,3-Dichlorobenzene	ND	ug/l	1.0	--	1	
1,4-Dichlorobenzene	ND	ug/l	1.0	--	1	
cis-1,2-Dichloroethene	7.5	ug/l	1.0	--	1	
1,2-Dichloroethene, Total	7.5	ug/l	1.0	--	1	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-10
 Client ID: MW-205S
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 10:35
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	6.5		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	114		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-11	D	Date Collected:	04/28/21 10:40
Client ID:	MW-205D		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 12:49
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	100	--	50	
1,1-Dichloroethane	ND	ug/l	50	--	50	
Chloroform	ND	ug/l	50	--	50	
Carbon tetrachloride	ND	ug/l	50	--	50	
1,2-Dichloropropane	ND	ug/l	50	--	50	
Dibromochloromethane	ND	ug/l	50	--	50	
1,1,2-Trichloroethane	ND	ug/l	50	--	50	
Tetrachloroethene	ND	ug/l	50	--	50	
Chlorobenzene	ND	ug/l	50	--	50	
1,2-Dichloroethane	ND	ug/l	50	--	50	
1,1,1-Trichloroethane	ND	ug/l	50	--	50	
Bromodichloromethane	ND	ug/l	50	--	50	
trans-1,3-Dichloropropene	ND	ug/l	20	--	50	
cis-1,3-Dichloropropene	ND	ug/l	20	--	50	
1,3-Dichloropropene, Total	ND	ug/l	20	--	50	
Bromoform	ND	ug/l	100	--	50	
1,1,2,2-Tetrachloroethane	ND	ug/l	50	--	50	
Chloromethane	ND	ug/l	100	--	50	
Vinyl chloride	ND	ug/l	50	--	50	
Chloroethane	ND	ug/l	100	--	50	
1,1-Dichloroethene	ND	ug/l	50	--	50	
trans-1,2-Dichloroethene	ND	ug/l	50	--	50	
Trichloroethene	7400	ug/l	50	--	50	
1,2-Dichlorobenzene	ND	ug/l	50	--	50	
1,3-Dichlorobenzene	ND	ug/l	50	--	50	
1,4-Dichlorobenzene	ND	ug/l	50	--	50	
cis-1,2-Dichloroethene	260	ug/l	50	--	50	
1,2-Dichloroethene, Total	260	ug/l	50	--	50	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-11	D	Date Collected:	04/28/21 10:40
Client ID:	MW-205D		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	100	--	50
1,2-Dibromoethane	ND		ug/l	100	--	50
1,3-Dichloropropane	ND		ug/l	100	--	50
1,1,1,2-Tetrachloroethane	ND		ug/l	50	--	50
o-Chlorotoluene	ND		ug/l	100	--	50
p-Chlorotoluene	ND		ug/l	100	--	50
Hexachlorobutadiene	ND		ug/l	30	--	50
1,2,4-Trichlorobenzene	ND		ug/l	100	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	115		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-12
Client ID: MW-206S
Sample Location: WOBURN, MA

Date Collected: 04/28/21 10:45
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 10:42
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	ND	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	ND	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-12
 Client ID: MW-206S
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 10:45
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	113		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-13	D	Date Collected:	04/28/21 10:50
Client ID:	MW-206D		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 13:31
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	20	--	10	
1,1-Dichloroethane	ND	ug/l	10	--	10	
Chloroform	28	ug/l	10	--	10	
Carbon tetrachloride	ND	ug/l	10	--	10	
1,2-Dichloropropane	ND	ug/l	10	--	10	
Dibromochloromethane	ND	ug/l	10	--	10	
1,1,2-Trichloroethane	ND	ug/l	10	--	10	
Tetrachloroethene	12	ug/l	10	--	10	
Chlorobenzene	ND	ug/l	10	--	10	
1,2-Dichloroethane	ND	ug/l	10	--	10	
1,1,1-Trichloroethane	ND	ug/l	10	--	10	
Bromodichloromethane	ND	ug/l	10	--	10	
trans-1,3-Dichloropropene	ND	ug/l	4.0	--	10	
cis-1,3-Dichloropropene	ND	ug/l	4.0	--	10	
1,3-Dichloropropene, Total	ND	ug/l	4.0	--	10	
Bromoform	ND	ug/l	20	--	10	
1,1,2,2-Tetrachloroethane	ND	ug/l	10	--	10	
Chloromethane	ND	ug/l	20	--	10	
Vinyl chloride	ND	ug/l	10	--	10	
Chloroethane	ND	ug/l	20	--	10	
1,1-Dichloroethene	ND	ug/l	10	--	10	
trans-1,2-Dichloroethene	ND	ug/l	10	--	10	
Trichloroethene	1200	ug/l	10	--	10	
1,2-Dichlorobenzene	14	ug/l	10	--	10	
1,3-Dichlorobenzene	ND	ug/l	10	--	10	
1,4-Dichlorobenzene	ND	ug/l	10	--	10	
cis-1,2-Dichloroethene	210	ug/l	10	--	10	
1,2-Dichloroethene, Total	210	ug/l	10	--	10	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-13	D	Date Collected:	04/28/21 10:50
Client ID:	MW-206D		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	20	--	10
1,2-Dibromoethane	ND		ug/l	20	--	10
1,3-Dichloropropane	ND		ug/l	20	--	10
1,1,1,2-Tetrachloroethane	ND		ug/l	10	--	10
o-Chlorotoluene	ND		ug/l	20	--	10
p-Chlorotoluene	ND		ug/l	20	--	10
Hexachlorobutadiene	ND		ug/l	6.0	--	10
1,2,4-Trichlorobenzene	ND		ug/l	20	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	108		70-130

Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-14
 Client ID: MW-207S
 Sample Location: WOBURN, MA

D

Date Collected: 04/28/21 10:55
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 05/10/21 14:13
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	40	--	20	
1,1-Dichloroethane	ND	ug/l	20	--	20	
Chloroform	ND	ug/l	20	--	20	
Carbon tetrachloride	ND	ug/l	20	--	20	
1,2-Dichloropropane	ND	ug/l	20	--	20	
Dibromochloromethane	ND	ug/l	20	--	20	
1,1,2-Trichloroethane	ND	ug/l	20	--	20	
Tetrachloroethene	ND	ug/l	20	--	20	
Chlorobenzene	ND	ug/l	20	--	20	
1,2-Dichloroethane	ND	ug/l	20	--	20	
1,1,1-Trichloroethane	ND	ug/l	20	--	20	
Bromodichloromethane	ND	ug/l	20	--	20	
trans-1,3-Dichloropropene	ND	ug/l	8.0	--	20	
cis-1,3-Dichloropropene	ND	ug/l	8.0	--	20	
1,3-Dichloropropene, Total	ND	ug/l	8.0	--	20	
Bromoform	ND	ug/l	40	--	20	
1,1,2,2-Tetrachloroethane	ND	ug/l	20	--	20	
Chloromethane	ND	ug/l	40	--	20	
Vinyl chloride	52	ug/l	20	--	20	
Chloroethane	ND	ug/l	40	--	20	
1,1-Dichloroethene	ND	ug/l	20	--	20	
trans-1,2-Dichloroethene	ND	ug/l	20	--	20	
Trichloroethene	2700	ug/l	20	--	20	
1,2-Dichlorobenzene	20	ug/l	20	--	20	
1,3-Dichlorobenzene	ND	ug/l	20	--	20	
1,4-Dichlorobenzene	ND	ug/l	20	--	20	
cis-1,2-Dichloroethene	1400	ug/l	20	--	20	
1,2-Dichloroethene, Total	1400	ug/l	20	--	20	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-14	D	Date Collected:	04/28/21 10:55
Client ID:	MW-207S		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	40	--	20
1,2-Dibromoethane	ND		ug/l	40	--	20
1,3-Dichloropropane	ND		ug/l	40	--	20
1,1,1,2-Tetrachloroethane	ND		ug/l	20	--	20
o-Chlorotoluene	ND		ug/l	40	--	20
p-Chlorotoluene	ND		ug/l	40	--	20
Hexachlorobutadiene	ND		ug/l	12	--	20
1,2,4-Trichlorobenzene	ND		ug/l	40	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	109		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-15	D	Date Collected:	04/28/21 11:00
Client ID:	MW-207D		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/11/21 07:58
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	100	--	50	
1,1-Dichloroethane	ND	ug/l	50	--	50	
Chloroform	200	ug/l	50	--	50	
Carbon tetrachloride	ND	ug/l	50	--	50	
1,2-Dichloropropane	ND	ug/l	50	--	50	
Dibromochloromethane	ND	ug/l	50	--	50	
1,1,2-Trichloroethane	ND	ug/l	50	--	50	
Tetrachloroethene	ND	ug/l	50	--	50	
Chlorobenzene	ND	ug/l	50	--	50	
1,2-Dichloroethane	ND	ug/l	50	--	50	
1,1,1-Trichloroethane	ND	ug/l	50	--	50	
Bromodichloromethane	ND	ug/l	50	--	50	
trans-1,3-Dichloropropene	ND	ug/l	20	--	50	
cis-1,3-Dichloropropene	ND	ug/l	20	--	50	
1,3-Dichloropropene, Total	ND	ug/l	20	--	50	
Bromoform	ND	ug/l	100	--	50	
1,1,2,2-Tetrachloroethane	ND	ug/l	50	--	50	
Chloromethane	ND	ug/l	100	--	50	
Vinyl chloride	ND	ug/l	50	--	50	
Chloroethane	ND	ug/l	100	--	50	
1,1-Dichloroethene	ND	ug/l	50	--	50	
trans-1,2-Dichloroethene	ND	ug/l	50	--	50	
Trichloroethene	ND	ug/l	50	--	50	
1,2-Dichlorobenzene	ND	ug/l	50	--	50	
1,3-Dichlorobenzene	ND	ug/l	50	--	50	
1,4-Dichlorobenzene	ND	ug/l	50	--	50	
cis-1,2-Dichloroethene	ND	ug/l	50	--	50	
1,2-Dichloroethene, Total	ND	ug/l	50	--	50	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-15	D	Date Collected:	04/28/21 11:00
Client ID:	MW-207D		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	100	--	50
1,2-Dibromoethane	ND		ug/l	100	--	50
1,3-Dichloropropane	ND		ug/l	100	--	50
1,1,1,2-Tetrachloroethane	ND		ug/l	50	--	50
o-Chlorotoluene	ND		ug/l	100	--	50
p-Chlorotoluene	ND		ug/l	100	--	50
Hexachlorobutadiene	ND		ug/l	30	--	50
1,2,4-Trichlorobenzene	ND		ug/l	100	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	107		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-16
Client ID: MW-208S
Sample Location: WOBURN, MA

Date Collected: 04/28/21 11:05
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 11:24
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	3.4	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	1.4	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	2.7	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	3.5	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	3.5	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-16
 Client ID: MW-208S
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 11:05
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	116		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-17	D	Date Collected:	04/28/21 11:10
Client ID:	MW-208D		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 15:37
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	10	--	5	
1,1-Dichloroethane	ND	ug/l	5.0	--	5	
Chloroform	19	ug/l	5.0	--	5	
Carbon tetrachloride	ND	ug/l	5.0	--	5	
1,2-Dichloropropane	ND	ug/l	5.0	--	5	
Dibromochloromethane	ND	ug/l	5.0	--	5	
1,1,2-Trichloroethane	ND	ug/l	5.0	--	5	
Tetrachloroethene	ND	ug/l	5.0	--	5	
Chlorobenzene	ND	ug/l	5.0	--	5	
1,2-Dichloroethane	ND	ug/l	5.0	--	5	
1,1,1-Trichloroethane	ND	ug/l	5.0	--	5	
Bromodichloromethane	ND	ug/l	5.0	--	5	
trans-1,3-Dichloropropene	ND	ug/l	2.0	--	5	
cis-1,3-Dichloropropene	ND	ug/l	2.0	--	5	
1,3-Dichloropropene, Total	ND	ug/l	2.0	--	5	
Bromoform	ND	ug/l	10	--	5	
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	--	5	
Chloromethane	ND	ug/l	10	--	5	
Vinyl chloride	ND	ug/l	5.0	--	5	
Chloroethane	ND	ug/l	10	--	5	
1,1-Dichloroethene	ND	ug/l	5.0	--	5	
trans-1,2-Dichloroethene	ND	ug/l	5.0	--	5	
Trichloroethene	34	ug/l	5.0	--	5	
1,2-Dichlorobenzene	5.6	ug/l	5.0	--	5	
1,3-Dichlorobenzene	ND	ug/l	5.0	--	5	
1,4-Dichlorobenzene	ND	ug/l	5.0	--	5	
cis-1,2-Dichloroethene	42	ug/l	5.0	--	5	
1,2-Dichloroethene, Total	42	ug/l	5.0	--	5	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-17 D
 Client ID: MW-208D
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 11:10
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	10	--	5
1,2-Dibromoethane	ND		ug/l	10	--	5
1,3-Dichloropropane	ND		ug/l	10	--	5
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	--	5
o-Chlorotoluene	ND		ug/l	10	--	5
p-Chlorotoluene	ND		ug/l	10	--	5
Hexachlorobutadiene	ND		ug/l	3.0	--	5
1,2,4-Trichlorobenzene	ND		ug/l	10	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	119		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-18	D	Date Collected:	04/28/21 11:15
Client ID:	MW-209S		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 16:18
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	10	--	5	
1,1-Dichloroethane	ND	ug/l	5.0	--	5	
Chloroform	ND	ug/l	5.0	--	5	
Carbon tetrachloride	ND	ug/l	5.0	--	5	
1,2-Dichloropropane	ND	ug/l	5.0	--	5	
Dibromochloromethane	ND	ug/l	5.0	--	5	
1,1,2-Trichloroethane	ND	ug/l	5.0	--	5	
Tetrachloroethene	27	ug/l	5.0	--	5	
Chlorobenzene	ND	ug/l	5.0	--	5	
1,2-Dichloroethane	ND	ug/l	5.0	--	5	
1,1,1-Trichloroethane	ND	ug/l	5.0	--	5	
Bromodichloromethane	ND	ug/l	5.0	--	5	
trans-1,3-Dichloropropene	ND	ug/l	2.0	--	5	
cis-1,3-Dichloropropene	ND	ug/l	2.0	--	5	
1,3-Dichloropropene, Total	ND	ug/l	2.0	--	5	
Bromoform	ND	ug/l	10	--	5	
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	--	5	
Chloromethane	ND	ug/l	10	--	5	
Vinyl chloride	ND	ug/l	5.0	--	5	
Chloroethane	ND	ug/l	10	--	5	
1,1-Dichloroethene	ND	ug/l	5.0	--	5	
trans-1,2-Dichloroethene	ND	ug/l	5.0	--	5	
Trichloroethene	59	ug/l	5.0	--	5	
1,2-Dichlorobenzene	10	ug/l	5.0	--	5	
1,3-Dichlorobenzene	ND	ug/l	5.0	--	5	
1,4-Dichlorobenzene	ND	ug/l	5.0	--	5	
cis-1,2-Dichloroethene	ND	ug/l	5.0	--	5	
1,2-Dichloroethene, Total	ND	ug/l	5.0	--	5	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-18	D	Date Collected:	04/28/21 11:15
Client ID:	MW-209S		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	10	--	5
1,2-Dibromoethane	ND		ug/l	10	--	5
1,3-Dichloropropane	ND		ug/l	10	--	5
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	--	5
o-Chlorotoluene	ND		ug/l	10	--	5
p-Chlorotoluene	ND		ug/l	10	--	5
Hexachlorobutadiene	ND		ug/l	3.0	--	5
1,2,4-Trichlorobenzene	ND		ug/l	10	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	118		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-19	D	Date Collected:	04/28/21 11:20
Client ID:	MW-209D		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 17:20
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	4.0	--	2	
1,1-Dichloroethane	ND	ug/l	2.0	--	2	
Chloroform	5.0	ug/l	2.0	--	2	
Carbon tetrachloride	ND	ug/l	2.0	--	2	
1,2-Dichloropropane	ND	ug/l	2.0	--	2	
Dibromochloromethane	ND	ug/l	2.0	--	2	
1,1,2-Trichloroethane	ND	ug/l	2.0	--	2	
Tetrachloroethene	5.1	ug/l	2.0	--	2	
Chlorobenzene	ND	ug/l	2.0	--	2	
1,2-Dichloroethane	ND	ug/l	2.0	--	2	
1,1,1-Trichloroethane	ND	ug/l	2.0	--	2	
Bromodichloromethane	ND	ug/l	2.0	--	2	
trans-1,3-Dichloropropene	ND	ug/l	0.80	--	2	
cis-1,3-Dichloropropene	ND	ug/l	0.80	--	2	
1,3-Dichloropropene, Total	ND	ug/l	0.80	--	2	
Bromoform	ND	ug/l	4.0	--	2	
1,1,2,2-Tetrachloroethane	ND	ug/l	2.0	--	2	
Chloromethane	ND	ug/l	4.0	--	2	
Vinyl chloride	4.5	ug/l	2.0	--	2	
Chloroethane	ND	ug/l	4.0	--	2	
1,1-Dichloroethene	ND	ug/l	2.0	--	2	
trans-1,2-Dichloroethene	2.9	ug/l	2.0	--	2	
Trichloroethene	290	ug/l	2.0	--	2	
1,2-Dichlorobenzene	6.0	ug/l	2.0	--	2	
1,3-Dichlorobenzene	ND	ug/l	2.0	--	2	
1,4-Dichlorobenzene	ND	ug/l	2.0	--	2	
cis-1,2-Dichloroethene	320	ug/l	2.0	--	2	
1,2-Dichloroethene, Total	320	ug/l	2.0	--	2	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-19	D	Date Collected:	04/28/21 11:20
Client ID:	MW-209D		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	4.0	--	2
1,2-Dibromoethane	ND		ug/l	4.0	--	2
1,3-Dichloropropane	ND		ug/l	4.0	--	2
1,1,1,2-Tetrachloroethane	ND		ug/l	2.0	--	2
o-Chlorotoluene	ND		ug/l	4.0	--	2
p-Chlorotoluene	ND		ug/l	4.0	--	2
Hexachlorobutadiene	ND		ug/l	1.2	--	2
1,2,4-Trichlorobenzene	ND		ug/l	4.0	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	115		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-20 D
Client ID: MW-210S
Sample Location: WOBURN, MA

Date Collected: 04/28/21 12:15
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 17:41
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	4.0	--	2	
1,1-Dichloroethane	ND	ug/l	2.0	--	2	
Chloroform	ND	ug/l	2.0	--	2	
Carbon tetrachloride	ND	ug/l	2.0	--	2	
1,2-Dichloropropane	ND	ug/l	2.0	--	2	
Dibromochloromethane	ND	ug/l	2.0	--	2	
1,1,2-Trichloroethane	ND	ug/l	2.0	--	2	
Tetrachloroethene	3.6	ug/l	2.0	--	2	
Chlorobenzene	ND	ug/l	2.0	--	2	
1,2-Dichloroethane	ND	ug/l	2.0	--	2	
1,1,1-Trichloroethane	ND	ug/l	2.0	--	2	
Bromodichloromethane	ND	ug/l	2.0	--	2	
trans-1,3-Dichloropropene	ND	ug/l	0.80	--	2	
cis-1,3-Dichloropropene	ND	ug/l	0.80	--	2	
1,3-Dichloropropene, Total	ND	ug/l	0.80	--	2	
Bromoform	ND	ug/l	4.0	--	2	
1,1,2,2-Tetrachloroethane	ND	ug/l	2.0	--	2	
Chloromethane	ND	ug/l	4.0	--	2	
Vinyl chloride	23	ug/l	2.0	--	2	
Chloroethane	ND	ug/l	4.0	--	2	
1,1-Dichloroethene	ND	ug/l	2.0	--	2	
trans-1,2-Dichloroethene	ND	ug/l	2.0	--	2	
Trichloroethene	190	ug/l	2.0	--	2	
1,2-Dichlorobenzene	11	ug/l	2.0	--	2	
1,3-Dichlorobenzene	ND	ug/l	2.0	--	2	
1,4-Dichlorobenzene	ND	ug/l	2.0	--	2	
cis-1,2-Dichloroethene	260	ug/l	2.0	--	2	
1,2-Dichloroethene, Total	260	ug/l	2.0	--	2	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-20	D	Date Collected:	04/28/21 12:15
Client ID:	MW-210S		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	4.0	--	2
1,2-Dibromoethane	ND		ug/l	4.0	--	2
1,3-Dichloropropane	ND		ug/l	4.0	--	2
1,1,1,2-Tetrachloroethane	ND		ug/l	2.0	--	2
o-Chlorotoluene	ND		ug/l	4.0	--	2
p-Chlorotoluene	ND		ug/l	4.0	--	2
Hexachlorobutadiene	ND		ug/l	1.2	--	2
1,2,4-Trichlorobenzene	ND		ug/l	4.0	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	118		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-21	D	Date Collected:	04/28/21 12:20
Client ID:	MW-210D		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 17:00
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	200	--	100	
1,1-Dichloroethane	ND	ug/l	100	--	100	
Chloroform	ND	ug/l	100	--	100	
Carbon tetrachloride	ND	ug/l	100	--	100	
1,2-Dichloropropane	ND	ug/l	100	--	100	
Dibromochloromethane	ND	ug/l	100	--	100	
1,1,2-Trichloroethane	ND	ug/l	100	--	100	
Tetrachloroethene	ND	ug/l	100	--	100	
Chlorobenzene	ND	ug/l	100	--	100	
1,2-Dichloroethane	ND	ug/l	100	--	100	
1,1,1-Trichloroethane	ND	ug/l	100	--	100	
Bromodichloromethane	ND	ug/l	100	--	100	
trans-1,3-Dichloropropene	ND	ug/l	40	--	100	
cis-1,3-Dichloropropene	ND	ug/l	40	--	100	
1,3-Dichloropropene, Total	ND	ug/l	40	--	100	
Bromoform	ND	ug/l	200	--	100	
1,1,2,2-Tetrachloroethane	ND	ug/l	100	--	100	
Chloromethane	ND	ug/l	200	--	100	
Vinyl chloride	4700	ug/l	100	--	100	
Chloroethane	ND	ug/l	200	--	100	
1,1-Dichloroethene	ND	ug/l	100	--	100	
trans-1,2-Dichloroethene	ND	ug/l	100	--	100	
Trichloroethene	ND	ug/l	100	--	100	
1,2-Dichlorobenzene	ND	ug/l	100	--	100	
1,3-Dichlorobenzene	ND	ug/l	100	--	100	
1,4-Dichlorobenzene	ND	ug/l	100	--	100	
cis-1,2-Dichloroethene	15000	ug/l	100	--	100	
1,2-Dichloroethene, Total	15000	ug/l	100	--	100	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-21	D	Date Collected:	04/28/21 12:20
Client ID:	MW-210D		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	200	--	100
1,2-Dibromoethane	ND		ug/l	200	--	100
1,3-Dichloropropane	ND		ug/l	200	--	100
1,1,1,2-Tetrachloroethane	ND		ug/l	100	--	100
o-Chlorotoluene	ND		ug/l	200	--	100
p-Chlorotoluene	ND		ug/l	200	--	100
Hexachlorobutadiene	ND		ug/l	60	--	100
1,2,4-Trichlorobenzene	ND		ug/l	200	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	118		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-22 D
Client ID: MW-211D
Sample Location: WOBURN, MA

Date Collected: 04/28/21 12:25
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 18:02
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	4.0	--	2	
1,1-Dichloroethane	ND	ug/l	2.0	--	2	
Chloroform	ND	ug/l	2.0	--	2	
Carbon tetrachloride	ND	ug/l	2.0	--	2	
1,2-Dichloropropane	ND	ug/l	2.0	--	2	
Dibromochloromethane	ND	ug/l	2.0	--	2	
1,1,2-Trichloroethane	ND	ug/l	2.0	--	2	
Tetrachloroethene	ND	ug/l	2.0	--	2	
Chlorobenzene	ND	ug/l	2.0	--	2	
1,2-Dichloroethane	ND	ug/l	2.0	--	2	
1,1,1-Trichloroethane	ND	ug/l	2.0	--	2	
Bromodichloromethane	ND	ug/l	2.0	--	2	
trans-1,3-Dichloropropene	ND	ug/l	0.80	--	2	
cis-1,3-Dichloropropene	ND	ug/l	0.80	--	2	
1,3-Dichloropropene, Total	ND	ug/l	0.80	--	2	
Bromoform	ND	ug/l	4.0	--	2	
1,1,2,2-Tetrachloroethane	ND	ug/l	2.0	--	2	
Chloromethane	ND	ug/l	4.0	--	2	
Vinyl chloride	4.4	ug/l	2.0	--	2	
Chloroethane	ND	ug/l	4.0	--	2	
1,1-Dichloroethene	ND	ug/l	2.0	--	2	
trans-1,2-Dichloroethene	ND	ug/l	2.0	--	2	
Trichloroethene	4.1	ug/l	2.0	--	2	
1,2-Dichlorobenzene	3.0	ug/l	2.0	--	2	
1,3-Dichlorobenzene	ND	ug/l	2.0	--	2	
1,4-Dichlorobenzene	ND	ug/l	2.0	--	2	
cis-1,2-Dichloroethene	190	ug/l	2.0	--	2	
1,2-Dichloroethene, Total	190	ug/l	2.0	--	2	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-22	D	Date Collected:	04/28/21 12:25
Client ID:	MW-211D		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	4.0	--	2
1,2-Dibromoethane	ND		ug/l	4.0	--	2
1,3-Dichloropropane	ND		ug/l	4.0	--	2
1,1,1,2-Tetrachloroethane	ND		ug/l	2.0	--	2
o-Chlorotoluene	ND		ug/l	4.0	--	2
p-Chlorotoluene	ND		ug/l	4.0	--	2
Hexachlorobutadiene	ND		ug/l	1.2	--	2
1,2,4-Trichlorobenzene	ND		ug/l	4.0	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	123		70-130

Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-23	D	Date Collected:	04/28/21 12:50
Client ID:	MW-212S		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 05/10/21 15:16
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	50	--	25	
1,1-Dichloroethane	ND	ug/l	25	--	25	
Chloroform	ND	ug/l	25	--	25	
Carbon tetrachloride	ND	ug/l	25	--	25	
1,2-Dichloropropane	ND	ug/l	25	--	25	
Dibromochloromethane	ND	ug/l	25	--	25	
1,1,2-Trichloroethane	ND	ug/l	25	--	25	
Tetrachloroethene	41	ug/l	25	--	25	
Chlorobenzene	ND	ug/l	25	--	25	
1,2-Dichloroethane	ND	ug/l	25	--	25	
1,1,1-Trichloroethane	ND	ug/l	25	--	25	
Bromodichloromethane	ND	ug/l	25	--	25	
trans-1,3-Dichloropropene	ND	ug/l	10	--	25	
cis-1,3-Dichloropropene	ND	ug/l	10	--	25	
1,3-Dichloropropene, Total	ND	ug/l	10	--	25	
Bromoform	ND	ug/l	50	--	25	
1,1,2,2-Tetrachloroethane	ND	ug/l	25	--	25	
Chloromethane	ND	ug/l	50	--	25	
Vinyl chloride	ND	ug/l	25	--	25	
Chloroethane	ND	ug/l	50	--	25	
1,1-Dichloroethene	ND	ug/l	25	--	25	
trans-1,2-Dichloroethene	ND	ug/l	25	--	25	
Trichloroethene	3600	ug/l	25	--	25	
1,2-Dichlorobenzene	40	ug/l	25	--	25	
1,3-Dichlorobenzene	ND	ug/l	25	--	25	
1,4-Dichlorobenzene	ND	ug/l	25	--	25	
cis-1,2-Dichloroethene	ND	ug/l	25	--	25	
1,2-Dichloroethene, Total	ND	ug/l	25	--	25	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-23	D	Date Collected:	04/28/21 12:50
Client ID:	MW-212S		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	50	--	25
1,2-Dibromoethane	ND		ug/l	50	--	25
1,3-Dichloropropane	ND		ug/l	50	--	25
1,1,1,2-Tetrachloroethane	ND		ug/l	25	--	25
o-Chlorotoluene	ND		ug/l	50	--	25
p-Chlorotoluene	ND		ug/l	50	--	25
Hexachlorobutadiene	ND		ug/l	15	--	25
1,2,4-Trichlorobenzene	ND		ug/l	50	--	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	118		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-24
Client ID: MW-212M
Sample Location: WOBURN, MA

Date Collected: 04/28/21 09:50
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 13:10
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	ND	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	ND	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-24
 Client ID: MW-212M
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 09:50
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	125		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-25
Client ID: MW-212D
Sample Location: WOBURN, MA

Date Collected: 04/28/21 09:55
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 13:52
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	ND	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	17	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	80	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	80	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-25
 Client ID: MW-212D
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 09:55
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	109		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-26 D
Client ID: MW-213S
Sample Location: WOBURN, MA

Date Collected: 04/28/21 10:05
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 15:58
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	10	--	5	
1,1-Dichloroethane	ND	ug/l	5.0	--	5	
Chloroform	ND	ug/l	5.0	--	5	
Carbon tetrachloride	ND	ug/l	5.0	--	5	
1,2-Dichloropropane	ND	ug/l	5.0	--	5	
Dibromochloromethane	ND	ug/l	5.0	--	5	
1,1,2-Trichloroethane	ND	ug/l	5.0	--	5	
Tetrachloroethene	85	ug/l	5.0	--	5	
Chlorobenzene	ND	ug/l	5.0	--	5	
1,2-Dichloroethane	ND	ug/l	5.0	--	5	
1,1,1-Trichloroethane	ND	ug/l	5.0	--	5	
Bromodichloromethane	ND	ug/l	5.0	--	5	
trans-1,3-Dichloropropene	ND	ug/l	2.0	--	5	
cis-1,3-Dichloropropene	ND	ug/l	2.0	--	5	
1,3-Dichloropropene, Total	ND	ug/l	2.0	--	5	
Bromoform	ND	ug/l	10	--	5	
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	--	5	
Chloromethane	ND	ug/l	10	--	5	
Vinyl chloride	ND	ug/l	5.0	--	5	
Chloroethane	ND	ug/l	10	--	5	
1,1-Dichloroethene	ND	ug/l	5.0	--	5	
trans-1,2-Dichloroethene	ND	ug/l	5.0	--	5	
Trichloroethene	990	ug/l	5.0	--	5	
1,2-Dichlorobenzene	ND	ug/l	5.0	--	5	
1,3-Dichlorobenzene	ND	ug/l	5.0	--	5	
1,4-Dichlorobenzene	ND	ug/l	5.0	--	5	
cis-1,2-Dichloroethene	220	ug/l	5.0	--	5	
1,2-Dichloroethene, Total	220	ug/l	5.0	--	5	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-26	D	Date Collected:	04/28/21 10:05
Client ID:	MW-213S		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	10	--	5
1,2-Dibromoethane	ND		ug/l	10	--	5
1,3-Dichloropropane	ND		ug/l	10	--	5
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	--	5
o-Chlorotoluene	ND		ug/l	10	--	5
p-Chlorotoluene	ND		ug/l	10	--	5
Hexachlorobutadiene	ND		ug/l	3.0	--	5
1,2,4-Trichlorobenzene	ND		ug/l	10	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	126		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-27
Client ID: MW-213M
Sample Location: WOBURN, MA

Date Collected: 04/28/21 10:10
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 12:28
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	ND	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	14	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	130	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	130	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-27
 Client ID: MW-213M
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 10:10
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	119		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-28
Client ID: MW-231D
Sample Location: WOBURN, MA

Date Collected: 04/28/21 10:00
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 11:45
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	ND	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	ND	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-28
 Client ID: MW-231D
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 10:00
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	122		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-29
Client ID: MW-214S
Sample Location: WOBURN, MA

Date Collected: 04/28/21 10:15
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 14:35
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	ND	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	ND	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-29
 Client ID: MW-214S
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 10:15
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	125		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-30
Client ID: MW-214D
Sample Location: WOBURN, MA

Date Collected: 04/28/21 10:25
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 10:38
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	ND	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	ND	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-30
 Client ID: MW-214D
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 10:25
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	109		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-31 D
Client ID: MW-215S
Sample Location: WOBURN, MA

Date Collected: 04/28/21 11:25
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 16:29
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	10	--	5	
1,1-Dichloroethane	ND	ug/l	5.0	--	5	
Chloroform	9.4	ug/l	5.0	--	5	
Carbon tetrachloride	ND	ug/l	5.0	--	5	
1,2-Dichloropropane	ND	ug/l	5.0	--	5	
Dibromochloromethane	ND	ug/l	5.0	--	5	
1,1,2-Trichloroethane	ND	ug/l	5.0	--	5	
Tetrachloroethene	ND	ug/l	5.0	--	5	
Chlorobenzene	ND	ug/l	5.0	--	5	
1,2-Dichloroethane	ND	ug/l	5.0	--	5	
1,1,1-Trichloroethane	ND	ug/l	5.0	--	5	
Bromodichloromethane	ND	ug/l	5.0	--	5	
trans-1,3-Dichloropropene	ND	ug/l	2.0	--	5	
cis-1,3-Dichloropropene	ND	ug/l	2.0	--	5	
1,3-Dichloropropene, Total	ND	ug/l	2.0	--	5	
Bromoform	ND	ug/l	10	--	5	
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	--	5	
Chloromethane	ND	ug/l	10	--	5	
Vinyl chloride	ND	ug/l	5.0	--	5	
Chloroethane	ND	ug/l	10	--	5	
1,1-Dichloroethene	ND	ug/l	5.0	--	5	
trans-1,2-Dichloroethene	ND	ug/l	5.0	--	5	
Trichloroethene	ND	ug/l	5.0	--	5	
1,2-Dichlorobenzene	ND	ug/l	5.0	--	5	
1,3-Dichlorobenzene	ND	ug/l	5.0	--	5	
1,4-Dichlorobenzene	ND	ug/l	5.0	--	5	
cis-1,2-Dichloroethene	ND	ug/l	5.0	--	5	
1,2-Dichloroethene, Total	ND	ug/l	5.0	--	5	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-31	D	Date Collected:	04/28/21 11:25
Client ID:	MW-215S		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	10	--	5
1,2-Dibromoethane	ND		ug/l	10	--	5
1,3-Dichloropropane	ND		ug/l	10	--	5
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	--	5
o-Chlorotoluene	ND		ug/l	10	--	5
p-Chlorotoluene	ND		ug/l	10	--	5
Hexachlorobutadiene	ND		ug/l	3.0	--	5
1,2,4-Trichlorobenzene	ND		ug/l	10	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	110		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-32	D	Date Collected:	04/28/21 11:30
Client ID:	MW-215M		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 16:54
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	40	--	20	
1,1-Dichloroethane	ND	ug/l	20	--	20	
Chloroform	ND	ug/l	20	--	20	
Carbon tetrachloride	ND	ug/l	20	--	20	
1,2-Dichloropropane	ND	ug/l	20	--	20	
Dibromochloromethane	ND	ug/l	20	--	20	
1,1,2-Trichloroethane	ND	ug/l	20	--	20	
Tetrachloroethene	ND	ug/l	20	--	20	
Chlorobenzene	ND	ug/l	20	--	20	
1,2-Dichloroethane	ND	ug/l	20	--	20	
1,1,1-Trichloroethane	ND	ug/l	20	--	20	
Bromodichloromethane	ND	ug/l	20	--	20	
trans-1,3-Dichloropropene	ND	ug/l	8.0	--	20	
cis-1,3-Dichloropropene	ND	ug/l	8.0	--	20	
1,3-Dichloropropene, Total	ND	ug/l	8.0	--	20	
Bromoform	ND	ug/l	40	--	20	
1,1,2,2-Tetrachloroethane	ND	ug/l	20	--	20	
Chloromethane	ND	ug/l	40	--	20	
Vinyl chloride	ND	ug/l	20	--	20	
Chloroethane	ND	ug/l	40	--	20	
1,1-Dichloroethene	ND	ug/l	20	--	20	
trans-1,2-Dichloroethene	ND	ug/l	20	--	20	
Trichloroethene	1000	ug/l	20	--	20	
1,2-Dichlorobenzene	ND	ug/l	20	--	20	
1,3-Dichlorobenzene	ND	ug/l	20	--	20	
1,4-Dichlorobenzene	ND	ug/l	20	--	20	
cis-1,2-Dichloroethene	2600	ug/l	20	--	20	
1,2-Dichloroethene, Total	2600	ug/l	20	--	20	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-32	D	Date Collected:	04/28/21 11:30
Client ID:	MW-215M		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	40	--	20
1,2-Dibromoethane	ND		ug/l	40	--	20
1,3-Dichloropropane	ND		ug/l	40	--	20
1,1,1,2-Tetrachloroethane	ND		ug/l	20	--	20
o-Chlorotoluene	ND		ug/l	40	--	20
p-Chlorotoluene	ND		ug/l	40	--	20
Hexachlorobutadiene	ND		ug/l	12	--	20
1,2,4-Trichlorobenzene	ND		ug/l	40	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	105		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-33
Client ID: MW-215D
Sample Location: WOBURN, MA

Date Collected: 04/28/21 11:35
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 11:03
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	ND	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	ND	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-33
 Client ID: MW-215D
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 11:35
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	104		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-34	D	Date Collected:	04/28/21 11:40
Client ID:	MW-216S		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 17:19
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	50	--	25	
1,1-Dichloroethane	ND	ug/l	25	--	25	
Chloroform	120	ug/l	25	--	25	
Carbon tetrachloride	ND	ug/l	25	--	25	
1,2-Dichloropropane	ND	ug/l	25	--	25	
Dibromochloromethane	ND	ug/l	25	--	25	
1,1,2-Trichloroethane	ND	ug/l	25	--	25	
Tetrachloroethene	ND	ug/l	25	--	25	
Chlorobenzene	ND	ug/l	25	--	25	
1,2-Dichloroethane	ND	ug/l	25	--	25	
1,1,1-Trichloroethane	ND	ug/l	25	--	25	
Bromodichloromethane	ND	ug/l	25	--	25	
trans-1,3-Dichloropropene	ND	ug/l	10	--	25	
cis-1,3-Dichloropropene	ND	ug/l	10	--	25	
1,3-Dichloropropene, Total	ND	ug/l	10	--	25	
Bromoform	ND	ug/l	50	--	25	
1,1,2,2-Tetrachloroethane	ND	ug/l	25	--	25	
Chloromethane	ND	ug/l	50	--	25	
Vinyl chloride	ND	ug/l	25	--	25	
Chloroethane	ND	ug/l	50	--	25	
1,1-Dichloroethene	ND	ug/l	25	--	25	
trans-1,2-Dichloroethene	ND	ug/l	25	--	25	
Trichloroethene	28	ug/l	25	--	25	
1,2-Dichlorobenzene	ND	ug/l	25	--	25	
1,3-Dichlorobenzene	ND	ug/l	25	--	25	
1,4-Dichlorobenzene	ND	ug/l	25	--	25	
cis-1,2-Dichloroethene	46	ug/l	25	--	25	
1,2-Dichloroethene, Total	46	ug/l	25	--	25	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-34	D	Date Collected:	04/28/21 11:40
Client ID:	MW-216S		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	50	--	25
1,2-Dibromoethane	ND		ug/l	50	--	25
1,3-Dichloropropane	ND		ug/l	50	--	25
1,1,1,2-Tetrachloroethane	ND		ug/l	25	--	25
o-Chlorotoluene	ND		ug/l	50	--	25
p-Chlorotoluene	ND		ug/l	50	--	25
Hexachlorobutadiene	ND		ug/l	15	--	25
1,2,4-Trichlorobenzene	ND		ug/l	50	--	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	107		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-35
Client ID: MW-216M
Sample Location: WOBURN, MA

Date Collected: 04/28/21 11:42
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 11:28
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	6.6	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	1.0	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	1.9	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	1.9	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-35
 Client ID: MW-216M
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 11:42
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	105		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-36
Client ID: MW-216D
Sample Location: WOBURN, MA

Date Collected: 04/28/21 11:45
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 11:54
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	ND	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	12	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	ND	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-36
 Client ID: MW-216D
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 11:45
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	108		70-130

Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-37
 Client ID: MW-217S
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 11:50
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 05/10/21 12:19
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	1	
1,1-Dichloroethane	ND	ug/l	1.0	--	1	
Chloroform	ND	ug/l	1.0	--	1	
Carbon tetrachloride	ND	ug/l	1.0	--	1	
1,2-Dichloropropane	ND	ug/l	1.0	--	1	
Dibromochloromethane	ND	ug/l	1.0	--	1	
1,1,2-Trichloroethane	ND	ug/l	1.0	--	1	
Tetrachloroethene	ND	ug/l	1.0	--	1	
Chlorobenzene	ND	ug/l	1.0	--	1	
1,2-Dichloroethane	ND	ug/l	1.0	--	1	
1,1,1-Trichloroethane	ND	ug/l	1.0	--	1	
Bromodichloromethane	ND	ug/l	1.0	--	1	
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	1	
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	1	
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	1	
Bromoform	ND	ug/l	2.0	--	1	
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	1	
Chloromethane	ND	ug/l	2.0	--	1	
Vinyl chloride	ND	ug/l	1.0	--	1	
Chloroethane	ND	ug/l	2.0	--	1	
1,1-Dichloroethene	ND	ug/l	1.0	--	1	
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	1	
Trichloroethene	1.8	ug/l	1.0	--	1	
1,2-Dichlorobenzene	ND	ug/l	1.0	--	1	
1,3-Dichlorobenzene	ND	ug/l	1.0	--	1	
1,4-Dichlorobenzene	ND	ug/l	1.0	--	1	
cis-1,2-Dichloroethene	1.8	ug/l	1.0	--	1	
1,2-Dichloroethene, Total	1.8	ug/l	1.0	--	1	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-37
 Client ID: MW-217S
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 11:50
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	107		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-38
Client ID: MW-217M
Sample Location: WOBURN, MA

Date Collected: 04/28/21 11:55
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/11/21 08:28
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	ND	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	7.7	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	ND	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-38
 Client ID: MW-217M
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 11:55
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	109		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-39
Client ID: MW-217D
Sample Location: WOBURN, MA

Date Collected: 04/28/21 12:00
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 12:44
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	ND	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	ND	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-39
 Client ID: MW-217D
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 12:00
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	107		70-130

Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-40
 Client ID: MW-218S
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 12:55
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 05/10/21 16:39
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	ND	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	ND	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-40
 Client ID: MW-218S
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 12:55
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	121		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-41
Client ID: MW-218M
Sample Location: WOBURN, MA

Date Collected: 04/28/21 13:00
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 13:09
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	ND	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	14	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	1.2	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	1.2	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-41
 Client ID: MW-218M
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 13:00
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	108		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-42
Client ID: MW-218D
Sample Location: WOBURN, MA

Date Collected: 04/28/21 13:05
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 13:34
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	ND	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	ND	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-42
 Client ID: MW-218D
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 13:05
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	108		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-43
Client ID: MW-219S
Sample Location: WOBURN, MA

Date Collected: 04/28/21 13:10
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 13:59
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	ND	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	ND	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-43
 Client ID: MW-219S
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 13:10
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	110		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-44
Client ID: MW-219M
Sample Location: WOBURN, MA

Date Collected: 04/28/21 13:15
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 14:24
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	ND	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	2.6	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	2.6	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-44
 Client ID: MW-219M
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 13:15
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	108		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-45
Client ID: MW-219D
Sample Location: WOBURN, MA

Date Collected: 04/28/21 13:20
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 14:50
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	ND	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	ND	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-45
 Client ID: MW-219D
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 13:20
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	110		70-130

Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-46
 Client ID: MW-220M
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 13:25
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 05/10/21 15:14
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	1	
1,1-Dichloroethane	ND	ug/l	1.0	--	1	
Chloroform	ND	ug/l	1.0	--	1	
Carbon tetrachloride	ND	ug/l	1.0	--	1	
1,2-Dichloropropane	ND	ug/l	1.0	--	1	
Dibromochloromethane	ND	ug/l	1.0	--	1	
1,1,2-Trichloroethane	ND	ug/l	1.0	--	1	
Tetrachloroethene	ND	ug/l	1.0	--	1	
Chlorobenzene	ND	ug/l	1.0	--	1	
1,2-Dichloroethane	ND	ug/l	1.0	--	1	
1,1,1-Trichloroethane	ND	ug/l	1.0	--	1	
Bromodichloromethane	ND	ug/l	1.0	--	1	
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	1	
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	1	
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	1	
Bromoform	ND	ug/l	2.0	--	1	
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	1	
Chloromethane	ND	ug/l	2.0	--	1	
Vinyl chloride	ND	ug/l	1.0	--	1	
Chloroethane	ND	ug/l	2.0	--	1	
1,1-Dichloroethene	ND	ug/l	1.0	--	1	
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	1	
Trichloroethene	ND	ug/l	1.0	--	1	
1,2-Dichlorobenzene	ND	ug/l	1.0	--	1	
1,3-Dichlorobenzene	ND	ug/l	1.0	--	1	
1,4-Dichlorobenzene	ND	ug/l	1.0	--	1	
cis-1,2-Dichloroethene	3.5	ug/l	1.0	--	1	
1,2-Dichloroethene, Total	3.5	ug/l	1.0	--	1	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-46
 Client ID: MW-220M
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 13:25
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	108		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-47
Client ID: MW-220D
Sample Location: WOBURN, MA

Date Collected: 04/28/21 13:30
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 15:39
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	ND	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	ND	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-47
 Client ID: MW-220D
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 13:30
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	109		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-48
Client ID: OL-002
Sample Location: WOBURN, MA

Date Collected: 04/28/21 12:30
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/11/21 08:58
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	ND	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	15	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	1.1	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	32	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	32	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-48
 Client ID: OL-002
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 12:30
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	106		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-49	D	Date Collected:	04/28/21 12:35
Client ID:	OL-2M		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/10/21 18:08
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	10	--	5	
1,1-Dichloroethane	ND	ug/l	5.0	--	5	
Chloroform	ND	ug/l	5.0	--	5	
Carbon tetrachloride	ND	ug/l	5.0	--	5	
1,2-Dichloropropane	ND	ug/l	5.0	--	5	
Dibromochloromethane	ND	ug/l	5.0	--	5	
1,1,2-Trichloroethane	ND	ug/l	5.0	--	5	
Tetrachloroethene	ND	ug/l	5.0	--	5	
Chlorobenzene	ND	ug/l	5.0	--	5	
1,2-Dichloroethane	ND	ug/l	5.0	--	5	
1,1,1-Trichloroethane	ND	ug/l	5.0	--	5	
Bromodichloromethane	ND	ug/l	5.0	--	5	
trans-1,3-Dichloropropene	ND	ug/l	2.0	--	5	
cis-1,3-Dichloropropene	ND	ug/l	2.0	--	5	
1,3-Dichloropropene, Total	ND	ug/l	2.0	--	5	
Bromoform	ND	ug/l	10	--	5	
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	--	5	
Chloromethane	ND	ug/l	10	--	5	
Vinyl chloride	ND	ug/l	5.0	--	5	
Chloroethane	ND	ug/l	10	--	5	
1,1-Dichloroethene	ND	ug/l	5.0	--	5	
trans-1,2-Dichloroethene	ND	ug/l	5.0	--	5	
Trichloroethene	52	ug/l	5.0	--	5	
1,2-Dichlorobenzene	ND	ug/l	5.0	--	5	
1,3-Dichlorobenzene	ND	ug/l	5.0	--	5	
1,4-Dichlorobenzene	ND	ug/l	5.0	--	5	
cis-1,2-Dichloroethene	6.3	ug/l	5.0	--	5	
1,2-Dichloroethene, Total	6.3	ug/l	5.0	--	5	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-49	D	Date Collected:	04/28/21 12:35
Client ID:	OL-2M		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	10	--	5
1,2-Dibromoethane	ND		ug/l	10	--	5
1,3-Dichloropropane	ND		ug/l	10	--	5
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	--	5
o-Chlorotoluene	ND		ug/l	10	--	5
p-Chlorotoluene	ND		ug/l	10	--	5
Hexachlorobutadiene	ND		ug/l	3.0	--	5
1,2,4-Trichlorobenzene	ND		ug/l	10	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	110		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-50	D	Date Collected:	04/28/21 12:40
Client ID:	OL-003		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/11/21 07:28
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	10	--	5	
1,1-Dichloroethane	ND	ug/l	5.0	--	5	
Chloroform	ND	ug/l	5.0	--	5	
Carbon tetrachloride	ND	ug/l	5.0	--	5	
1,2-Dichloropropane	ND	ug/l	5.0	--	5	
Dibromochloromethane	ND	ug/l	5.0	--	5	
1,1,2-Trichloroethane	ND	ug/l	5.0	--	5	
Tetrachloroethene	5.8	ug/l	5.0	--	5	
Chlorobenzene	ND	ug/l	5.0	--	5	
1,2-Dichloroethane	ND	ug/l	5.0	--	5	
1,1,1-Trichloroethane	ND	ug/l	5.0	--	5	
Bromodichloromethane	ND	ug/l	5.0	--	5	
trans-1,3-Dichloropropene	ND	ug/l	2.0	--	5	
cis-1,3-Dichloropropene	ND	ug/l	2.0	--	5	
1,3-Dichloropropene, Total	ND	ug/l	2.0	--	5	
Bromoform	ND	ug/l	10	--	5	
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	--	5	
Chloromethane	ND	ug/l	10	--	5	
Vinyl chloride	240	ug/l	5.0	--	5	
Chloroethane	ND	ug/l	10	--	5	
1,1-Dichloroethene	ND	ug/l	5.0	--	5	
trans-1,2-Dichloroethene	ND	ug/l	5.0	--	5	
Trichloroethene	430	ug/l	5.0	--	5	
1,2-Dichlorobenzene	7.3	ug/l	5.0	--	5	
1,3-Dichlorobenzene	ND	ug/l	5.0	--	5	
1,4-Dichlorobenzene	ND	ug/l	5.0	--	5	
cis-1,2-Dichloroethene	550	ug/l	5.0	--	5	
1,2-Dichloroethene, Total	550	ug/l	5.0	--	5	



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID:	L2122740-50	D	Date Collected:	04/28/21 12:40
Client ID:	OL-003		Date Received:	05/03/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	10	--	5
1,2-Dibromoethane	ND		ug/l	10	--	5
1,3-Dichloropropane	ND		ug/l	10	--	5
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	--	5
o-Chlorotoluene	ND		ug/l	10	--	5
p-Chlorotoluene	ND		ug/l	10	--	5
Hexachlorobutadiene	ND		ug/l	3.0	--	5
1,2,4-Trichlorobenzene	ND		ug/l	10	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	110		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-51
Client ID: OL-3M
Sample Location: WOBURN, MA

Date Collected: 04/28/21 12:45
Date Received: 05/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 05/11/21 06:58
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	--	1
1,1-Dichloroethane	ND	ug/l	1.0	--	--	1
Chloroform	ND	ug/l	1.0	--	--	1
Carbon tetrachloride	ND	ug/l	1.0	--	--	1
1,2-Dichloropropane	ND	ug/l	1.0	--	--	1
Dibromochloromethane	ND	ug/l	1.0	--	--	1
1,1,2-Trichloroethane	ND	ug/l	1.0	--	--	1
Tetrachloroethene	ND	ug/l	1.0	--	--	1
Chlorobenzene	ND	ug/l	1.0	--	--	1
1,2-Dichloroethane	ND	ug/l	1.0	--	--	1
1,1,1-Trichloroethane	ND	ug/l	1.0	--	--	1
Bromodichloromethane	ND	ug/l	1.0	--	--	1
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	--	1
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	--	1
Bromoform	ND	ug/l	2.0	--	--	1
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	--	1
Chloromethane	ND	ug/l	2.0	--	--	1
Vinyl chloride	42	ug/l	1.0	--	--	1
Chloroethane	ND	ug/l	2.0	--	--	1
1,1-Dichloroethene	ND	ug/l	1.0	--	--	1
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	--	1
Trichloroethene	17	ug/l	1.0	--	--	1
1,2-Dichlorobenzene	5.6	ug/l	1.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	1.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	1.0	--	--	1
cis-1,2-Dichloroethene	15	ug/l	1.0	--	--	1
1,2-Dichloroethene, Total	15	ug/l	1.0	--	--	1



Project Name: 60 OLYMPICS

Lab Number: L2122740

Project Number: 2491

Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122740-51
 Client ID: OL-3M
 Sample Location: WOBURN, MA

Date Collected: 04/28/21 12:45
 Date Received: 05/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	106		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/08/21 05:20
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s):	01-04,06-08		Batch:	WG1496570-5	
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.40	--
cis-1,3-Dichloropropene	ND		ug/l	0.40	--
1,3-Dichloropropene, Total	ND		ug/l	0.40	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene, Total	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--



Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/08/21 05:20
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s):	01-04,06-08		Batch:	WG1496570-5	
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	116		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/10/21 08:35
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s):	05,09-14,16-18,20-21			Batch:	WG1496744-5
Methylene chloride	ND	ug/l	2.0	--	
1,1-Dichloroethane	ND	ug/l	1.0	--	
Chloroform	ND	ug/l	1.0	--	
Carbon tetrachloride	ND	ug/l	1.0	--	
1,2-Dichloropropane	ND	ug/l	1.0	--	
Dibromochloromethane	ND	ug/l	1.0	--	
1,1,2-Trichloroethane	ND	ug/l	1.0	--	
Tetrachloroethene	ND	ug/l	1.0	--	
Chlorobenzene	ND	ug/l	1.0	--	
1,2-Dichloroethane	ND	ug/l	1.0	--	
1,1,1-Trichloroethane	ND	ug/l	1.0	--	
Bromodichloromethane	ND	ug/l	1.0	--	
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	
Bromoform	ND	ug/l	2.0	--	
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	
Chloromethane	ND	ug/l	2.0	--	
Vinyl chloride	ND	ug/l	1.0	--	
Chloroethane	ND	ug/l	2.0	--	
1,1-Dichloroethene	ND	ug/l	1.0	--	
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	
Trichloroethene	ND	ug/l	1.0	--	
1,2-Dichlorobenzene	ND	ug/l	1.0	--	
1,3-Dichlorobenzene	ND	ug/l	1.0	--	
1,4-Dichlorobenzene	ND	ug/l	1.0	--	
cis-1,2-Dichloroethene	ND	ug/l	1.0	--	
1,2-Dichloroethene, Total	ND	ug/l	1.0	--	
Dichlorodifluoromethane	ND	ug/l	2.0	--	

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/10/21 08:35
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s):	05,09-14,16-18,20-21			Batch:	WG1496744-5
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	103		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/10/21 10:13
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s):	30-37,39,41-47,49			Batch:	WG1497008-5
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.40	--
cis-1,3-Dichloropropene	ND		ug/l	0.40	--
1,3-Dichloropropene, Total	ND		ug/l	0.40	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene, Total	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--



Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/10/21 10:13
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s):	30-37,39,41-47,49			Batch:	WG1497008-5
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	106		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/10/21 08:14
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s):	19,22-29,40			Batch:	WG1497028-5
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.40	--
cis-1,3-Dichloropropene	ND		ug/l	0.40	--
1,3-Dichloropropene, Total	ND		ug/l	0.40	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene, Total	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--



Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/10/21 08:14
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s):	19,22-29,40		Batch:	WG1497028-5	
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	108		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/11/21 06:27
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s):	15,38,48,50-51			Batch:	WG1497145-5
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.40	--
cis-1,3-Dichloropropene	ND		ug/l	0.40	--
1,3-Dichloropropene, Total	ND		ug/l	0.40	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene, Total	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--



Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/11/21 06:27
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s):	15,38,48,50-51			Batch:	WG1497145-5
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04,06-08 Batch: WG1496570-3 WG1496570-4								
Methylene chloride	110		110		70-130	0		20
1,1-Dichloroethane	110		120		70-130	9		20
Chloroform	110		120		70-130	9		20
Carbon tetrachloride	100		110		70-130	10		20
1,2-Dichloropropane	110		120		70-130	9		20
Dibromochloromethane	100		110		70-130	10		20
1,1,2-Trichloroethane	100		110		70-130	10		20
Tetrachloroethene	110		120		70-130	9		20
Chlorobenzene	110		120		70-130	9		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	110		110		70-130	0		20
Bromodichloromethane	110		110		70-130	0		20
trans-1,3-Dichloropropene	96		99		70-130	3		20
cis-1,3-Dichloropropene	100		110		70-130	10		20
Bromoform	93		94		70-130	1		20
1,1,2,2-Tetrachloroethane	100		100		70-130	0		20
Chloromethane	91		96		70-130	5		20
Vinyl chloride	91		97		70-130	6		20
Chloroethane	100		110		70-130	10		20
1,1-Dichloroethene	100		110		70-130	10		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	110		110		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> <i>Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> <i>Limits</i>
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04,06-08 Batch: WG1496570-3 WG1496570-4								
1,3-Dichlorobenzene	100		110		70-130	10		20
1,4-Dichlorobenzene	100		110		70-130	10		20
cis-1,2-Dichloroethene	110		120		70-130	9		20
Dichlorodifluoromethane	53	Q	58	Q	70-130	9		20
1,2-Dibromoethane	100		110		70-130	10		20
1,3-Dichloropropane	100		100		70-130	0		20
1,1,1,2-Tetrachloroethane	100		120		70-130	18		20
o-Chlorotoluene	100		110		70-130	10		20
p-Chlorotoluene	100		100		70-130	0		20
Hexachlorobutadiene	96		100		70-130	4		20
1,2,4-Trichlorobenzene	97		99		70-130	2		20

Surrogate	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	Acceptance Criteria
1,2-Dichloroethane-d4	91		90		70-130
Toluene-d8	100		104		70-130
4-Bromofluorobenzene	99		94		70-130
Dibromofluoromethane	97		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 05,09-14,16-18,20-21 Batch: WG1496744-3 WG1496744-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	110		100		70-130	10		20
Carbon tetrachloride	100		100		70-130	0		20
1,2-Dichloropropane	120		120		70-130	0		20
Dibromochloromethane	110		110		70-130	0		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	110		110		70-130	0		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	100		110		70-130	10		20
Bromodichloromethane	110		110		70-130	0		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
cis-1,3-Dichloropropene	110		110		70-130	0		20
Bromoform	100		100		70-130	0		20
1,1,2,2-Tetrachloroethane	110		100		70-130	10		20
Chloromethane	91		88		70-130	3		20
Vinyl chloride	86		86		70-130	0		20
Chloroethane	84		99		70-130	16		20
1,1-Dichloroethene	99		100		70-130	1		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	110		110		70-130	0		20
1,2-Dichlorobenzene	110		100		70-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 05,09-14,16-18,20-21 Batch: WG1496744-3 WG1496744-4								
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
cis-1,2-Dichloroethene	100		110		70-130	10		20
Dichlorodifluoromethane	57	Q	59	Q	70-130	3		20
1,2-Dibromoethane	110		110		70-130	0		20
1,3-Dichloropropane	110		100		70-130	10		20
1,1,1,2-Tetrachloroethane	110		110		70-130	0		20
o-Chlorotoluene	110		100		70-130	10		20
p-Chlorotoluene	110		110		70-130	0		20
Hexachlorobutadiene	120		110		70-130	9		20
1,2,4-Trichlorobenzene	110		110		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	86		88		70-130
Toluene-d8	100		98		70-130
4-Bromofluorobenzene	98		100		70-130
Dibromofluoromethane	92		92		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 30-37,39,41-47,49 Batch: WG1497008-3 WG1497008-4								
Methylene chloride	96		88		70-130	9		20
1,1-Dichloroethane	100		92		70-130	8		20
Chloroform	100		94		70-130	6		20
Carbon tetrachloride	110		100		70-130	10		20
1,2-Dichloropropane	98		86		70-130	13		20
Dibromochloromethane	90		83		70-130	8		20
1,1,2-Trichloroethane	92		82		70-130	11		20
Tetrachloroethene	100		87		70-130	14		20
Chlorobenzene	97		88		70-130	10		20
1,2-Dichloroethane	110		97		70-130	13		20
1,1,1-Trichloroethane	110		98		70-130	12		20
Bromodichloromethane	96		86		70-130	11		20
trans-1,3-Dichloropropene	98		88		70-130	11		20
cis-1,3-Dichloropropene	99		91		70-130	8		20
Bromoform	79		72		70-130	9		20
1,1,2,2-Tetrachloroethane	94		92		70-130	2		20
Chloromethane	99		85		70-130	15		20
Vinyl chloride	150	Q	130		70-130	14		20
Chloroethane	150	Q	130		70-130	14		20
1,1-Dichloroethene	100		87		70-130	14		20
trans-1,2-Dichloroethene	100		89		70-130	12		20
Trichloroethene	100		84		70-130	17		20
1,2-Dichlorobenzene	97		90		70-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 30-37,39,41-47,49 Batch: WG1497008-3 WG1497008-4								
1,3-Dichlorobenzene	97		90		70-130	7		20
1,4-Dichlorobenzene	100		90		70-130	11		20
cis-1,2-Dichloroethene	99		90		70-130	10		20
Dichlorodifluoromethane	120		96		70-130	22	Q	20
1,2-Dibromoethane	95		86		70-130	10		20
1,3-Dichloropropane	95		86		70-130	10		20
1,1,1,2-Tetrachloroethane	95		87		70-130	9		20
o-Chlorotoluene	96		87		70-130	10		20
p-Chlorotoluene	96		86		70-130	11		20
Hexachlorobutadiene	99		87		70-130	13		20
1,2,4-Trichlorobenzene	96		87		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	113		114		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	107		110		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 19,22-29,40 Batch: WG1497028-3 WG1497028-4								
Methylene chloride	99		94		70-130	5		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	100		98		70-130	2		20
Carbon tetrachloride	100		100		70-130	0		20
1,2-Dichloropropane	110		100		70-130	10		20
Dibromochloromethane	95		96		70-130	1		20
1,1,2-Trichloroethane	98		99		70-130	1		20
Tetrachloroethene	94		96		70-130	2		20
Chlorobenzene	96		99		70-130	3		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	100		100		70-130	0		20
Bromodichloromethane	100		100		70-130	0		20
trans-1,3-Dichloropropene	95		98		70-130	3		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
Bromoform	94		93		70-130	1		20
1,1,2,2-Tetrachloroethane	100		100		70-130	0		20
Chloromethane	93		93		70-130	0		20
Vinyl chloride	80		80		70-130	0		20
Chloroethane	90		88		70-130	2		20
1,1-Dichloroethene	97		96		70-130	1		20
trans-1,2-Dichloroethene	99		98		70-130	1		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	99		99		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD	Limits
	%Recovery	Qual	%Recovery	Qual	Limits					
MCP Volatile Organics - Westborough Lab Associated sample(s): 19,22-29,40 Batch: WG1497028-3 WG1497028-4										
1,3-Dichlorobenzene	100		100		70-130		0			20
1,4-Dichlorobenzene	100		100		70-130		0			20
cis-1,2-Dichloroethene	100		100		70-130		0			20
Dichlorodifluoromethane	54	Q	53	Q	70-130		2			20
1,2-Dibromoethane	97		100		70-130		3			20
1,3-Dichloropropane	90		94		70-130		4			20
1,1,1,2-Tetrachloroethane	94		97		70-130		3			20
o-Chlorotoluene	99		100		70-130		1			20
p-Chlorotoluene	99		99		70-130		0			20
Hexachlorobutadiene	100		100		70-130		0			20
1,2,4-Trichlorobenzene	99		99		70-130		0			20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	93		88		70-130
Toluene-d8	94		98		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	97		98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 15,38,48,50-51 Batch: WG1497145-3 WG1497145-4								
Methylene chloride	99		98		70-130	1		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	110		100		70-130	10		20
Carbon tetrachloride	120		120		70-130	0		20
1,2-Dichloropropane	98		98		70-130	0		20
Dibromochloromethane	120		120		70-130	0		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	120		120		70-130	0		20
Chlorobenzene	110		100		70-130	10		20
1,2-Dichloroethane	130		130		70-130	0		20
1,1,1-Trichloroethane	110		110		70-130	0		20
Bromodichloromethane	110		110		70-130	0		20
trans-1,3-Dichloropropene	120		110		70-130	9		20
cis-1,3-Dichloropropene	110		110		70-130	0		20
Bromoform	100		100		70-130	0		20
1,1,2,2-Tetrachloroethane	82		81		70-130	1		20
Chloromethane	90		89		70-130	1		20
Vinyl chloride	100		99		70-130	1		20
Chloroethane	100		96		70-130	4		20
1,1-Dichloroethene	97		97		70-130	0		20
trans-1,2-Dichloroethene	94		95		70-130	1		20
Trichloroethene	97		97		70-130	0		20
1,2-Dichlorobenzene	110		110		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> <i>Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> <i>Limits</i>
MCP Volatile Organics - Westborough Lab Associated sample(s): 15,38,48,50-51 Batch: WG1497145-3 WG1497145-4								
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
cis-1,2-Dichloroethene	98		99		70-130	1		20
Dichlorodifluoromethane	100		100		70-130	0		20
1,2-Dibromoethane	110		110		70-130	0		20
1,3-Dichloropropane	110		100		70-130	10		20
1,1,1,2-Tetrachloroethane	120		120		70-130	0		20
o-Chlorotoluene	89		89		70-130	0		20
p-Chlorotoluene	94		94		70-130	0		20
Hexachlorobutadiene	90		89		70-130	1		20
1,2,4-Trichlorobenzene	130		120		70-130	8		20

Surrogate	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	Acceptance Criteria
1,2-Dichloroethane-d4	118		120		70-130
Toluene-d8	94		93		70-130
4-Bromofluorobenzene	76		77		70-130
Dibromofluoromethane	103		106		70-130

Project Name: 60 OLYMPICS
Project Number: 2491

Serial_No:05132112:24
Lab Number: L2122740
Report Date: 05/13/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2122740-01A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-01B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-01C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-02A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-02B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-02C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-03A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-03B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-03C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-04A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-04B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-04C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-05A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-05B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-05C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-06A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-06B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-06C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-07A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-07B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-07C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-08A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-08B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2122740-08C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-09A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-09B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-09C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-10A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-10B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-10C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-11A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-11B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-11C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-12A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-12B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-12C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-13A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-13B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-13C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-14A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-14B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-14C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-15A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-15B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-15C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-16A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-16B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-16C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-17A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-17B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-17C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2122740-18A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-18B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-18C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-19A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-19B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-19C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-20A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-20B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-20C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-21A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-21B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-21C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-22A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-22B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-22C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-23A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-23B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-23C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-24A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-24B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-24C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-25A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-25B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-25C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-26A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-26B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-26C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-27A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2122740-27B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-27C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-28A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-28B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-28C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-29A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-29B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-29C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-30A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-30B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-30C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-31A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-31B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-31C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-32A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-32B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-32C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-33A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-33B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-33C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-34A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-34B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-34C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-35A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-35B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-35C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-36A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-36B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2122740-36C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-37A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-37B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-37C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-38A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-38B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-38C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-39A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-39B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-39C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-40A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-40B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-40C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-41A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-41B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-41C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-42A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-42B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-42C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-43A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-43B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-43C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-44A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-44B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-44C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-45A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-45B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-45C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2122740-46A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-46B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-47A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-47B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-47C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-48A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-48B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-48C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-49A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-49B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-49C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-50A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-50B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-50C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-51A	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-51B	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)
L2122740-51C	Vial HCl preserved	B	NA		3.6	Y	Absent		MCP-8260-CHLR-10(14)

*Values in parentheses indicate holding time in days

Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthrenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e., co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report



Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

Data Qualifiers

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: Data Usability Report



Project Name: 60 OLYMPICS
Project Number: 2491

Lab Number: L2122740
Report Date: 05/13/21

REFERENCES

- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at its own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine. SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C**, **SM4500CN-CE**, EPA 180.1, **SM2130B**, **SM4500CI-D**, **SM2320B**, **SM2540C**, **SM4500H-B**, **SM4500NO2-B**

EPA 332: Perchlorate; **EPA 524.2**: THMs and VOCs; **EPA 504.1**: EDB, DBCP.

Microbiology: **SM9215B**; **SM9223-P/A**, **SM9223B-Colilert-QT**, **SM9222D**.

Non-Potable Water

SM4500H,B, EPA 120.1, **SM2510B**, **SM2540C**, **SM2320B**, **SM4500CL-E**, **SM4500F-BC**, **SM4500NH3-BH**: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, **EPA 351.1**, **SM4500NO3-F**, **EPA 353.2**: Nitrate-N, **SM4500P-E**, **SM4500P-B**, **E**, **SM4500SO4-E**, **SM5220D**, EPA 410.4, **SM5210B**, **SM5310C**, **SM4500CL-D**, EPA 1664, **EPA 420.1**, **SM4500-CN-CE**, **SM2540D**, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.

Microbiology: **SM9223B-Colilert-QT**; **Enterolert-QT**, **SM9221E**, EPA 1600, **EPA 1603**, **SM9222D**.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8**: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg. **EPA 522**, **EPA 537.1**.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE 2 OF 6Date Rec'd in Lab: 5/3/21ALPHA Job #: L22740 MDG

B Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Client Information

Client: Geo InsightAddress: 1 Monarch Drive Suite 201
Littleton, MA 01460Phone: 978 679 1600Email: CASimmons@geoinc.com

Additional Project Information:

Chlorinated Halocarbons Only

Turn-Around Time

 Standard RUSH (only confirmed if pre-approved!)

Date Due:

Report Information - Data Deliverables

 ADEx EMAIL

Billing Information

 Same as Client Info PO #:

Regulatory Requirements & Project Information Requirements

- Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods
- Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
- Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
- Yes No NPDES RGP
- Other State /Fed Program _____ Criteria _____

ANALYSIS										SAMPLE INFO		TOTAL BOTTLES
VOC: <input checked="" type="checkbox"/> 8260	<input type="checkbox"/> 624	<input type="checkbox"/> 524.2										
SVOC: <input type="checkbox"/> ABN	<input type="checkbox"/> PAH		METALS: <input type="checkbox"/> MCP 13	<input type="checkbox"/> MCP 14	<input type="checkbox"/> RCP 15	<input type="checkbox"/> PP13						
METALS: <input type="checkbox"/> RCRAS	<input type="checkbox"/> RCRAS	<input type="checkbox"/> RCR48										
EPH: <input type="checkbox"/> Ranges & Targets	<input type="checkbox"/> Ranges Only											
VRP: <input type="checkbox"/> Ranges & Targets	<input type="checkbox"/> Ranges Only											
PCB: <input type="checkbox"/> PEST												
TPH: <input type="checkbox"/> Quant Only	<input type="checkbox"/> Fingerprint											

Sample Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	X					
		Date	Time								
22740-01	MW-2003	4/28/21	9:00	6W	ARP	X					
-02	MW-200D		09:05		SGC						
-03	MW-201S		09:10		CAS						
-04	MW-201D		9:15		CAS						
-05	MW-202S		09:20		ARP						
-06	MW-202D		9:25		SGC						
-07	MW-203S		9:30		CAS						
-08	MW-203D	<u>CAS</u>			CAS						
-09	MW-204S		09:40		ARP						
											3

Container Type
 P= Plastic
 A= Amber glass
 V= Vial
 G= Glass
 B= Bacteriological cup
 C= Cube
 O= Other
 E= Enclosed
 D= BOD Bottle

Preservative
 A= None
 B= HCl
 C= HNO₃
 D= H₂SO₄
 E= NaOH
 F= MeOH
 G= NaHSO₄
 H= Na₂S₂O₃
 I= Ascorbic Acid
 J= NH₄Cl
 K= Zn Acetate
 O= Other

Container Type Preservative

Relinquished By:

Date/Time

4/28/21 16:00
5/3/21 1850

Received By:

Date/Time

5/3/21 1230
5/3/21 1850

All samples submitted are subject to
Alpha's Terms and Conditions.
See reverse side.
FORM NO: 01-01 (rev. 12-Mar-2012)



CHAIN OF CUSTODY

PAGE 2 OF 6Date Rec'd in Lab: 5/3/21ALPHA Job #: L2122740

B Walkup Drive
Westboro, MA 01581
Tel: 508-896-8220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Client Information

Client: Geo InsightAddress: 1 Monarch Drive Suite 201
Littleton, MA 01460Phone: 978 679 1600Email: CASimmons@geoinc.com

Project Information

Project Name: 60 OlympiaProject Location: Woburn, MAProject #: 2491Project Manager: Cam Simmons

ALPHA Quote #:

Turn-Around Time

 Standard RUSH (only confirmed if pre-approved)

Date Due:

Additional Project Information:

Chlorinated Halocarbons only

Report Information - Data Deliverables

 ADEX EMAIL

Billing Information

 Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods

Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)

Yes No GW1 Standards (Info Required for Metals & EPH with Targets)

Yes No NPDES RGP

Other State /Fed Program _____ Criteria _____

ANALYSIS	SAMPLE INFO										TOTAL # BOTTLES					
	VOC: <input checked="" type="checkbox"/> 8260	<input type="checkbox"/> 624	<input type="checkbox"/> 524.2	SVOC: <input type="checkbox"/> ABN	<input type="checkbox"/> PAH	METALS: <input type="checkbox"/> MCP 13	<input type="checkbox"/> MCP 14	<input type="checkbox"/> RCP 15	EPH: <input type="checkbox"/> RCR45	<input type="checkbox"/> RCR48	<input type="checkbox"/> PP13	VPH: <input type="checkbox"/> Ranges & Targets	<input type="checkbox"/> Ranges Only	<input type="checkbox"/> PCB	<input type="checkbox"/> PEST	TPH: <input type="checkbox"/> Quant Only

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	X	Sample Comments										TOTAL # BOTTLES
		Date	Time														
22740 -10	MW-2055	4/28/21	10:35	GW	ARP	X											3
-11	MW-205D		10:40		SGC												
-12	MW-204S		10:45		CAS												
-13	MW-206D		10:50		CAS												
-14	MW-2075		10:55		ARP												
-15	MW-207D		11:00		SGC												
-16	MW-208S		11:05		CAS												
-17	MW-208D		11:10		CAS												
-18	MW-209S		11:15		ARP												
-19	MW-209D		11:20		SGC												

Container Type

P= Plastic

A= Amber glass

V= Vial

G= Glass

B= Bacteria cup

C= Cube

O= Other

E= Encore

D= BOD Bottle

Preservative

A= None

B= HCl

C= HNO₃D= H₂SO₄

E= NaOH

F= MeOH

G= NaHSO₄H= Na₂S₂O₃

I= Ascorbic Acid

J= NH₄Cl

K= Zn Acetate

O= Other

Container Type Preservative

Relinquished By:

AR

Date/Time

4/28/21 16:00

5/3/21 18:50

Received By:

Mike

Callahan

Date/Time

5/3/21 18:50

5/3/21 18:50

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Alpha's Terms and Conditions.
See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)



CHAIN OF CUSTODY

PAGE 3 OF 6

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Client Information

Client: GeoInsightAddress: 1 Monarch Drive Suite 201
Littleton, MA 01460Phone: 978 #600-8791/600Email: CASimmons@geoinc.com

Additional Project Information:

Chlorinated Halocarbons Only

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials
		Date	Time		
22740 -20	MW-2103	4/28/21	12:15	GW	SGC
-21	MW-210D		12:20		ARP
-22	MW-211D		12:25		CAS
-23	MW-212S		12:50		ARP
-24	MW-212M		9:50		SGC
-25	MW-212 D		09:55		ARP
-26	MW-213 S		10:05		SGC
-27	MW-213 M		10:10		SGC
-28	MW-213 D		10:00		ARP
-29	MW-214S		10:15		SGC

Container Type
 P= Plastic
 A= Amber glass
 V= Vial
 G= Glass
 B= Bacteria cup
 C= Cube
 O= Other
 E= Encore
 D= BOD Bottle

Preservative
 A= None
 B= HCl
 C= HNO₃
 D= H₂SO₄
 E= NaOH
 F= MeOH
 G= NaHSO₄
 H= Na₂S₂O₃
 I= Ascorbic Acid
 J= NH₄Cl
 K= Zn Acetate
 O= Other

Container Type

Preservative

V

BI

Relinquished By: <i>Conrad APC</i>	Date/Time: 4/28/21 16:00 5/3/21 1850	Received By: <i>Allyson Carter</i>	Date/Time: 5/3/21 1230 5/3/21 1850
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See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)



CHAIN OF CUSTODY

PAGE 4 OF 6Date Rec'd in Lab: 5/3/21ALPHA Job #: L2122740

		Project Information		Report Information - Data Deliverables		Billing Information	
		Project Name: <u>GO Olympia</u>		<input type="checkbox"/> ADEx <input checked="" type="checkbox"/> EMAIL		<input type="checkbox"/> Same as Client info <input type="checkbox"/> PO #:	
Client Information		Project Location: <u>Woburn, MA</u>		Regulatory Requirements & Project Information Requirements			
Client: <u>GeoInsight, Inc.</u>		Project #: <u>2491</u>		<input type="checkbox"/> Yes <input type="checkbox"/> No MA MCP Analytical Methods <input type="checkbox"/> Yes <input type="checkbox"/> No CT RCP Analytical Methods <input type="checkbox"/> Yes <input type="checkbox"/> No Matrix Spike Required on this SDG? (Required for MCP Inorganics) <input type="checkbox"/> Yes <input type="checkbox"/> No GW1 Standards (Info Required for Metals & EPH with Targets) <input type="checkbox"/> Yes <input type="checkbox"/> No NPDES RGP <input type="checkbox"/> Other State /Fed Program _____ Criteria _____			
Address: <u>One Monarch Drive Suite 201 Littleton, MA 01460</u>		Project Manager: <u>Cam Simmons</u>					
Phone: <u>978-679-1600</u>		ALPHA Quote #:					
Email: <u>CASimmons@geoinc.com</u>		Turn-Around Time					
		<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> RUSH (only confirmed if pre-approved)				
Additional Project Information:		Date Due:					
<i>* Chlorinated Halocarbons only</i>							
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date	Sample Matrix	Sampler Initials	SAMPLE INFO
22740 -30		MW-214 D		4/28/21	10:25	SGC	Filtration <input type="checkbox"/> Field <input type="checkbox"/> Lab to do
-31		MW-215 S			11:25	ARP	Preservation <input type="checkbox"/> Lab to do
-32		MW-215 M			11:30	ARP	
-33		MW-215 D			11:35	ARP	
-34		MW-216 S			11:40	SGC	
-35		MW-216 M			11:42	SGC	
-36		MW-216 D			11:45	SGC	
-37		MW-217 S			11:50	SGC	
-38		MW-217 M			11:55	SGC	
-39		MW-217 D			12:00	SGC	
Container Type		Preservative		Container Type		TOTAL BOTTLES	
P= Plastic	A= Amber glass	V= Vial	G= Glass	B= Bacteria cup	C= Cube		
F= Plastic	G= HCl	H= HNO ₃	I= H ₂ SO ₄	J= NaOH	K= MeOH	L= NaHSO ₄	M= Na ₂ S ₂ O ₃
N= Ascorbic Acid	O= Zinc Chloride	P= Zinc Acetate	Q= Other	R= None	S= HCl	T= HNO ₃	U= H ₂ SO ₄
Container Type		Preservative		Container Type			
				Relinquished By:		Date/Time	Received By:
						<u>Jeffrey Flory</u>	<u>5/3/21 18:50</u>
All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.							
FORM NO: 01-01 (rev. 12-Mar-2012)							



CHAIN OF CUSTODY

PAGE 5 OF 6Date Rec'd in Lab: 5/3/21ALPHA Job #: L2122740

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Client Information

Client: GeoInsights, Inc.Address: One Monarch Drive Suite 200Littleton, MA 01460Phone: 978-679-1600Email: CASimmons@geoinc.com

Project Information

Project Name: 60 OlympiaProject Location: Woburn, MAProject #: 2491Project Manager: Cam Simmons

ALPHA Quote #:

Turn-Around Time

 Standard RUSH (only confirmed if pre-approved)

Date Due:

Additional Project Information:

Report Information - Data Deliverables

 ADEX EMAIL

Billing Information

 Same as Client Info

PO #:

Regulatory Requirements & Project Information Requirements

- Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods
- Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
- Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
- Yes No NPDES RGP
- Other State /Fed Program _____ Criteria _____

ANALYSIS	SAMPLE INFO										TOTAL # BOTTLES
	VOC: <input checked="" type="checkbox"/> 8260	VOC: <input type="checkbox"/> 624	VOC: <input type="checkbox"/> 524.2	METALS: <input type="checkbox"/> MCP 13	METALS: <input type="checkbox"/> MCP 14	METALS: <input type="checkbox"/> RCR45	METALS: <input type="checkbox"/> RCR48	EPH: <input type="checkbox"/> Ranges & Targets	EPH: <input type="checkbox"/> Ranges Only	EPH: <input type="checkbox"/> PEST	

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	X						
		Date	Time									
22740 -40	AW-218 S	4/28/21	12:55	GW	CAS	X						
-41	MW-218m		13:00		CAS							
-42	MW-218D		13:05		CAS							
-43	MW-219 S		13:10		CAS							
-44	MW-219m		13:15		CAS							
-45	MW-219 D		13:20		CAS							
-46	MW-220 S (CAS) MW-220m		13:25		ARP							
-47	MW-220D		13:30		ARP							
-48	OL-102		12:30		CAS							
-49	OL-2m		12:35		CAS							

Container Type

P= Plastic

A= Amber glass

V= Vial

G= Glass

B= Bacteria cup

C= Cube

O= Other

E= Encore

D= BOD Bottle

Preservative

A= None

B= HCl

C= HNO₃D= H₂SO₄

E= NaOH

F= MeOH

G= NaHSO₄H= Na₂S₂O₃

I= Ascorbic Acid

J= NH₄Cl

K= Zn Acetate

O= Other

Container Type

Preservative

B,I

Relinquished By:
Jeffrey A. Miller

Date/Time

4/28/21 16:04
5/3/21 18:00

Received By:

Jeffrey A. Miller

Date/Time

5/3/21 18:00

All samples submitted are subject to
Alpha's Terms and Conditions.
See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)



CHAIN OF CUSTODY

PAGE 6 OF 6Date Rec'd in Lab: 5/3/21ALPHA Job #: L2122740

Client Information		Project Information		Report Information - Data Deliverables		Billing Information																																																																	
		Project Name: <u>GO Olympia</u>		<input checked="" type="checkbox"/> ADEEx <input checked="" type="checkbox"/> EMAIL		<input checked="" type="checkbox"/> Same as Client Info PO #:																																																																	
		Project Location: <u>Woburn, MA</u>		Regulatory Requirements & Project Information Requirements																																																																			
		Project #: <u>2491</u>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MA MCP Analytical Methods <input type="checkbox"/> Yes <input type="checkbox"/> No CT RCP Analytical Methods <input type="checkbox"/> Yes <input type="checkbox"/> No Matrix Spike Required on this SDG? (Required for MCP Inorganics) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No GW1 Standards (Info Required for Metals & EPH with Targets) <input type="checkbox"/> Yes <input type="checkbox"/> No NPDES RGP <input type="checkbox"/> Other State /Fed Program _____		Criteria _____																																																																	
		Project Manager: <u>Cam Simmons</u>																																																																					
		ALPHA Quote #:																																																																					
		Turn-Around Time																																																																					
		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> RUSH (only confirmed if pre-approved)																																																																					
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Additional Project Information: * Chlorinated Halocarbons only																																																																							
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Preservative
 A= None
 B= HCl
 C= HNO₃
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 F= MeOH
 G= NaHSO₄
 H= Na₂S₂O₃
 I= Ascorbic Acid
 J= NH₄Cl
 K= Zn Acetate
 O= Other

Container Type Preservative

Relinquished By:	Date/Time	Received By:
<u>John</u> <u>Clark</u> <u>AK</u>	<u>4/28/21 16:00</u>	<u>Allison</u> <u>Collier</u>
	<u>5/3/21 18:00</u>	<u>5/3/21 18:00</u>

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 See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

Method Blank Summary
Form 4
Volatiles

Client	:	GeoInsight	Lab Number	:	L2122740
Project Name	:	60 OLYMPICS	Project Number	:	2491
Lab Sample ID	:	WG1496570-5	Lab File ID	:	J210508A11
Instrument ID	:	JACK			
Matrix	:	WATER	Analysis Date	:	05/08/21 05:20

Client Sample No.	Lab Sample ID	Analysis Date
WG1496570-3LCS	WG1496570-3	05/08/21 03:57
WG1496570-4LCSD	WG1496570-4	05/08/21 04:39
MW-203S	L2122740-07	05/08/21 08:03
MW-201D	L2122740-04	05/08/21 08:44
MW-2003	L2122740-01D	05/08/21 09:25
MW-201S	L2122740-03D	05/08/21 10:06
MW-204S	L2122740-08D	05/08/21 11:27
MW-200D	L2122740-02D	05/08/21 12:08
MW-202D	L2122740-06D	05/08/21 12:49

Method Blank Summary
Form 4
Volatiles

Client	:	GeoInsight	Lab Number	:	L2122740
Project Name	:	60 OLYMPICS	Project Number	:	2491
Lab Sample ID	:	WG1497028-5	Lab File ID	:	J210510B06
Instrument ID	:	JACK			
Matrix	:	WATER	Analysis Date	:	05/10/21 08:14

Client Sample No.	Lab Sample ID	Analysis Date
WG1497028-3LCS	WG1497028-3	05/10/21 06:50
WG1497028-4LCSD	WG1497028-4	05/10/21 07:32
MW-231D	L2122740-28	05/10/21 11:45
MW-213M	L2122740-27	05/10/21 12:28
MW-212M	L2122740-24	05/10/21 13:10
MW-212D	L2122740-25	05/10/21 13:52
MW-214S	L2122740-29	05/10/21 14:35
MW-212S	L2122740-23D	05/10/21 15:16
MW-213S	L2122740-26D	05/10/21 15:58
MW-218S	L2122740-40	05/10/21 16:39
MW-209D	L2122740-19D	05/10/21 17:20
MW-211D	L2122740-22D	05/10/21 18:02

Method Blank Summary
Form 4
Volatiles

Client	:	GeoInsight	Lab Number	:	L2122740
Project Name	:	60 OLYMPICS	Project Number	:	2491
Lab Sample ID	:	WG1496744-5	Lab File ID	:	J210510B07
Instrument ID	:	JACK			
Matrix	:	WATER	Analysis Date	:	05/10/21 08:35

Client Sample No.	Lab Sample ID	Analysis Date
WG1496744-3LCS	WG1496744-3	05/10/21 07:11
WG1496744-4LCSD	WG1496744-4	05/10/21 07:53
MW-202S	L2122740-05D	05/10/21 09:17
MW-205S	L2122740-10	05/10/21 10:00
MW-206S	L2122740-12	05/10/21 10:42
MW-208S	L2122740-16	05/10/21 11:24
MW-204D	L2122740-09D	05/10/21 12:07
MW-205D	L2122740-11D	05/10/21 12:49
MW-206D	L2122740-13D	05/10/21 13:31
MW-207S	L2122740-14D	05/10/21 14:13
MW-208D	L2122740-17D	05/10/21 15:37
MW-209S	L2122740-18D	05/10/21 16:18
MW-210D	L2122740-21D	05/10/21 17:00
MW-210S	L2122740-20D	05/10/21 17:41

Method Blank Summary
Form 4
Volatiles

Client	:	GeoInsight	Lab Number	:	L2122740
Project Name	:	60 OLYMPICS	Project Number	:	2491
Lab Sample ID	:	WG1497008-5	Lab File ID	:	V16210510D06
Instrument ID	:	VOA116			
Matrix	:	WATER	Analysis Date	:	05/10/21 10:13

Client Sample No.	Lab Sample ID	Analysis Date
WG1497008-3LCS	WG1497008-3	05/10/21 07:30
WG1497008-4LCSD	WG1497008-4	05/10/21 08:38
MW-214D	L2122740-30	05/10/21 10:38
MW-215D	L2122740-33	05/10/21 11:03
MW-216M	L2122740-35	05/10/21 11:28
MW-216D	L2122740-36	05/10/21 11:54
MW-217S	L2122740-37	05/10/21 12:19
MW-217D	L2122740-39	05/10/21 12:44
MW-218M	L2122740-41	05/10/21 13:09
MW-218D	L2122740-42	05/10/21 13:34
MW-219S	L2122740-43	05/10/21 13:59
MW-219M	L2122740-44	05/10/21 14:24
MW-219D	L2122740-45	05/10/21 14:50
MW-220M	L2122740-46	05/10/21 15:14
MW-220D	L2122740-47	05/10/21 15:39
MW-215S	L2122740-31D	05/10/21 16:29
MW-215M	L2122740-32D	05/10/21 16:54
MW-216S	L2122740-34D	05/10/21 17:19
OL-2M	L2122740-49D	05/10/21 18:08

Method Blank Summary
Form 4
Volatiles

Client	:	GeoInsight	Lab Number	:	L2122740
Project Name	:	60 OLYMPICS	Project Number	:	2491
Lab Sample ID	:	WG1497145-5	Lab File ID	:	VQ210511A05
Instrument ID	:	QUIMBY			
Matrix	:	WATER	Analysis Date	:	05/11/21 06:27

Client Sample No.	Lab Sample ID	Analysis Date
WG1497145-3LCS	WG1497145-3	05/11/21 04:56
WG1497145-4LCSD	WG1497145-4	05/11/21 05:27
OL-3M	L2122740-51	05/11/21 06:58
OL-003	L2122740-50D	05/11/21 07:28
MW-207D	L2122740-15D	05/11/21 07:58
MW-217M	L2122740-38	05/11/21 08:28
OL-002	L2122740-48	05/11/21 08:58

Calibration Verification Summary
Form 7
Volatiles

Client	:	GeoInsight	Lab Number	:	L2122740
Project Name	:	60 OLYMPICS	Project Number	:	2491
Instrument ID	:	JACK	Calibration Date	:	05/08/21 03:57
Lab File ID	:	J210508A07	Init. Calib. Date(s)	:	04/20/21 04/20/21
Sample No	:	WG1496570-2	Init. Calib. Times	:	06:07 12:57
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	95	0
Dichlorodifluoromethane	1.542	0.822	-	46.7*	20	44	0
Chloromethane	2.252	2.051	-	8.9	20	82	0
Vinyl chloride	1.971	1.791	-	9.1	20	77	0
Chloroethane	1.198	1.216	-	-1.5	20	87	0
1,1-Dichloroethene	1.608	1.631	-	-1.4	20	89	0
Methylene chloride	1.728	1.874	-	-8.4	20	96	0
trans-1,2-Dichloroethene	1.648	1.765	-	-7.1	20	96	0
1,1-Dichloroethane	3.488	3.94	-	-13	20	99	0
cis-1,2-Dichloroethene	1.889	2.08	-	-10.1	20	99	0
Bromochloromethane	0.897	1.056	-	-17.7	20	104	0
Chloroform	3.289	3.524	-	-7.1	20	92	0
Carbon tetrachloride	2.644	2.74	-	-3.6	20	93	0
Dibromofluoromethane	0.29	0.282	-	2.8	20	98	0
1,1,1-Trichloroethane	2.893	3.119	-	-7.8	20	97	0
1,1-Dichloropropene	2.301	2.368	-	-2.9	20	92	0
1,2-Dichloroethane-d4	0.391	0.357	-	8.7	20	92	0
1,2-Dichloroethane	2.572	2.798	-	-8.8	20	100	0
Trichloroethene	1.748	1.893	-	-8.3	20	97	0
1,2-Dichloropropane	1.79	2.035	-	-13.7	20	106	0
Bromodichloromethane	2.457	2.66	-	-8.3	20	98	0
cis-1,3-Dichloropropene	2.784	2.87	-	-3.1	20	95	0
Chlorobenzene-d5	1	1	-	0	20	98	0
Toluene-d8	1.15	1.145	-	0.4	20	96	0
Tetrachloroethene	2.321	2.479	-	-6.8	20	100	0
trans-1,3-Dichloropropene	10	9.61	-	3.9	20	94	0
1,1,2-Trichloroethane	1.356	1.42	-	-4.7	20	101	0
Chlorodibromomethane	1.961	2.075	-	-5.8	20	102	0
1,3-Dichloropropane	2.782	2.854	-	-2.6	20	98	0
1,2-Dibromoethane	1.63	1.692	-	-3.8	20	99	0
Chlorobenzene	5.757	6.218	-	-8	20	102	0
1,1,1,2-Tetrachloroethane	1.992	2.084	-	-4.6	20	103	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	93	0
Bromoform	2.359	2.185	-	7.4	20	95	0
4-Bromofluorobenzene	0.8	0.793	-	0.9	20	95	0
1,1,2,2-Tetrachloroethane	3.387	3.477	-	-2.7	20	98	0
2-Chlorotoluene	14.23	15.04	-	-5.7	20	92	0
4-Chlorotoluene	13.04	13.6	-	-4.3	20	94	0
1,3-Dichlorobenzene	8.882	9.276	-	-4.4	20	96	0
1,4-Dichlorobenzene	8.812	9.179	-	-4.2	20	96	0
1,2-Dichlorobenzene	8.245	8.402	-	-1.9	20	96	0
Hexachlorobutadiene	2.239	2.147	-	4.1	20	88	0
1,2,4-Trichlorobenzene	4.502	4.366	-	3	20	97	0

* Value outside of QC limits.



Calibration Verification Summary
Form 7
Volatiles

Client	:	GeoInsight	Lab Number	:	L2122740
Project Name	:	60 OLYMPICS	Project Number	:	2491
Instrument ID	:	JACK	Calibration Date	:	05/10/21 06:50
Lab File ID	:	J210510B02	Init. Calib. Date(s)	:	04/20/21 04/20/21
Sample No	:	WG1497028-2	Init. Calib. Times	:	06:28 13:17
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	108	0
Dichlorodifluoromethane	1.718	0.931	-	45.8*	20	59	0
Chloromethane	2.239	2.084	-	6.9	20	102	0
Vinyl chloride	2.099	1.69	-	19.5	20	87	0
Bromomethane	10	8.076	-	19.2	20	83	0
Chloroethane	1.236	1.115	-	9.8	20	97	-.01
Trichlorofluoromethane	2.886	2.745	-	4.9	20	101	0
Ethyl ether	0.988	0.911	-	7.8	20	106	0
1,1-Dichloroethene	1.62	1.566	-	3.3	20	104	0
Carbon disulfide	4.976	4.761	-	4.3	20	106	0
Freon-113	1.756	1.728	-	1.6	20	104	-.01
Methylene chloride	1.895	1.885	-	0.5	20	115	0
Acetone	10	11.399	-	-14	20	130	0
trans-1,2-Dichloroethene	1.744	1.735	-	0.5	20	111	-.01
Methyl acetate	1.686	1.854	-	-10	20	129	0
Methyl tert-butyl ether	4.666	4.751	-	-1.8	20	117	0
tert-Butyl alcohol	0.162	0.202	-	-24.7*	20	153	-.01
Diisopropyl ether	7.013	7.622	-	-8.7	20	126	-.01
1,1-Dichloroethane	3.687	3.862	-	-4.7	20	116	0
Halothane	1.455	1.547	-	-6.3	20	118	0
Acrylonitrile	0.743	0.897	-	-20.7*	20	137	0
Ethyl tert-butyl ether	5.545	5.942	-	-7.2	20	126	0
Vinyl acetate	5.398	6.216	-	-15.2	20	136	0
cis-1,2-Dichloroethene	1.984	2.08	-	-4.8	20	116	0
2,2-Dichloropropane	2.857	2.879	-	-0.8	20	114	0
Bromochloromethane	0.938	1.049	-	-11.8	20	123	0
Cyclohexane	3.438	3.832	-	-11.5	20	118	0
Chloroform	3.496	3.604	-	-3.1	20	121	0
Ethyl acetate	2.26	2.629	-	-16.3	20	137	0
Carbon tetrachloride	2.608	2.721	-	-4.3	20	110	0
Tetrahydrofuran	0.702	0.84	-	-19.7	20	140	-.02
Dibromofluoromethane	0.274	0.267	-	2.6	20	108	0
1,1,1-Trichloroethane	3.004	3.147	-	-4.8	20	115	0
2-Butanone	1.019	1.131	-	-11	20	133	0
1,1-Dichloropropene	2.493	2.469	-	1	20	107	0
Benzene	7.147	7.276	-	-1.8	20	112	0
tert-Amyl methyl ether	4.722	4.513	-	4.4	20	119	0
1,2-Dichloroethane-d4	0.39	0.362	-	7.2	20	108	0
1,2-Dichloroethane	2.743	2.837	-	-3.4	20	118	0
Methyl cyclohexane	3.393	3.415	-	-0.6	20	112	0
Trichloroethene	1.946	1.999	-	-2.7	20	114	0
Dibromomethane	1.192	1.184	-	0.7	20	115	0
1,2-Dichloropropane	1.988	2.124	-	-6.8	20	125	0

* Value outside of QC limits.



Calibration Verification Summary
Form 7
Volatiles

Client	:	GeoInsight	Lab Number	:	L2122740
Project Name	:	60 OLYMPICS	Project Number	:	2491
Instrument ID	:	JACK	Calibration Date	:	05/10/21 06:50
Lab File ID	:	J210510B02	Init. Calib. Date(s)	:	04/20/21 04/20/21
Sample No	:	WG1497028-2	Init. Calib. Times	:	06:28 13:17
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
2-Chloroethyl vinyl ether	10	10.181	-	-1.8	20	130	0
Bromodichloromethane	2.635	2.754	-	-4.5	20	119	0
1,4-Dioxane	0.018	0.02*	-	-11.1	20	134	-.02
cis-1,3-Dichloropropene	3.055	3.142	-	-2.8	20	116	0
Chlorobenzene-d5	1	1	-	0	20	122	0
Toluene-d8	1.158	1.091	-	5.8	20	112	0
Toluene	5.622	5.172	-	8	20	118	0
4-Methyl-2-pentanone	10	10.507	-	-5.1	20	145	0
Tetrachloroethene	2.601	2.435	-	6.4	20	117	0
trans-1,3-Dichloropropene	3.254	3.103	-	4.6	20	118	0
Ethyl methacrylate	2.644	2.275	-	14	20	114	0
1,1,2-Trichloroethane	1.582	1.551	-	2	20	121	0
Chlorodibromomethane	2.288	2.182	-	4.6	20	125	0
1,3-Dichloropropane	3.34	3.026	-	9.4	20	115	0
1,2-Dibromoethane	1.93	1.864	-	3.4	20	123	0
2-Hexanone	1.669	1.676	-	-0.4	20	138	0
Chlorobenzene	6.368	6.144	-	3.5	20	119	0
Ethylbenzene	10.067	9.976	-	0.9	20	114	0
1,1,1,2-Tetrachloroethane	2.308	2.168	-	6.1	20	120	0
p/m Xylene	4.037	4.188	-	-3.7	20	119	0
o Xylene	20	19.064	-	4.7	20	119	0
Styrene	20	19.692	-	1.5	20	120	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	113	0
Bromoform	2.777	2.611	-	6	20	117	0
Isopropylbenzene	18.605	18.639	-	-0.2	20	116	0
4-Bromofluorobenzene	0.806	0.796	-	1.2	20	113	0
Bromobenzene	4.765	4.692	-	1.5	20	120	0
n-Propylbenzene	22.882	22.704	-	0.8	20	113	0
1,4-Dichlorobutane	6.578	6.877	-	-4.5	20	128	0
1,1,2,2-Tetrachloroethane	10	10.457	-	-4.6	20	121	0
4-Ethyltoluene	17.854	18.464	-	-3.4	20	117	0
2-Chlorotoluene	15.287	15.172	-	0.8	20	115	0
1,3,5-Trimethylbenzene	15.64	15.879	-	-1.5	20	116	0
1,2,3-Trichloropropane	3.625	3.437	-	5.2	20	113	0
trans-1,4-Dichloro-2-butene	1.546	1.467	-	5.1	20	118	0
4-Chlorotoluene	13.902	13.715	-	1.3	20	117	0
tert-Butylbenzene	13.881	14.5	-	-4.5	20	120	0
1,2,4-Trimethylbenzene	15.244	15.564	-	-2.1	20	118	0
sec-Butylbenzene	18.87	19.431	-	-3	20	116	0
p-Isopropyltoluene	10	9.979	-	0.2	20	122	0
1,3-Dichlorobenzene	9.524	9.746	-	-2.3	20	122	0
1,4-Dichlorobenzene	9.417	9.581	-	-1.7	20	123	0
p-Diethylbenzene	10.288	10.35	-	-0.6	20	122	0

* Value outside of QC limits.



Calibration Verification Summary
Form 7
Volatiles

Client	:	GeoInsight	Lab Number	:	L2122740
Project Name	:	60 OLYMPICS	Project Number	:	2491
Instrument ID	:	JACK	Calibration Date	:	05/10/21 06:50
Lab File ID	:	J210510B02	Init. Calib. Date(s)	:	04/20/21 04/20/21
Sample No	:	WG1497028-2	Init. Calib. Times	:	06:28 13:17
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	15.665	15.757	-	-0.6	20	114	0
1,2-Dichlorobenzene	8.844	8.767	-	0.9	20	122	0
1,2,4,5-Tetramethylbenzene	10	9.39	-	6.1	20	125	0
1,2-Dibromo-3-chloropropan	0.769	0.811	-	-5.5	20	130	0
1,3,5-Trichlorobenzene	6.153	6.212	-	-1	20	121	0
Hexachlorobutadiene	2.422	2.495	-	-3	20	123	0
1,2,4-Trichlorobenzene	5.391	5.339	-	1	20	124	0
Naphthalene	10	10.114	-	-1.1	20	133	0
1,2,3-Trichlorobenzene	5.031	5.066	-	-0.7	20	123	0

* Value outside of QC limits.



Calibration Verification Summary
Form 7
Volatiles

Client	:	GeoInsight	Lab Number	:	L2122740
Project Name	:	60 OLYMPICS	Project Number	:	2491
Instrument ID	:	JACK	Calibration Date	:	05/10/21 07:11
Lab File ID	:	J210510B03	Init. Calib. Date(s)	:	04/20/21 04/20/21
Sample No	:	WG1496744-2	Init. Calib. Times	:	06:07 12:57
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	116	0
Dichlorodifluoromethane	1.542	0.88	-	42.9*	20	58	0
Chloromethane	2.252	2.041	-	9.4	20	100	.02
Vinyl chloride	1.971	1.703	-	13.6	20	89	0
Chloroethane	1.198	1	-	16.5	20	88	0
1,1-Dichloroethene	1.608	1.59	-	1.1	20	107	0
Methylene chloride	1.728	1.821	-	-5.4	20	114	0
trans-1,2-Dichloroethene	1.648	1.753	-	-6.4	20	117	0
1,1-Dichloroethane	3.488	3.764	-	-7.9	20	116	0
cis-1,2-Dichloroethene	1.889	1.99	-	-5.3	20	116	0
Bromochloromethane	0.897	1.025	-	-14.3	20	124	0
Chloroform	3.289	3.573	-	-8.6	20	115	0
Carbon tetrachloride	2.644	2.634	-	0.4	20	110	0
Dibromofluoromethane	0.29	0.268	-	7.6	20	114	0
1,1,1-Trichloroethane	2.893	3.042	-	-5.2	20	115	0
1,1-Dichloropropene	2.301	2.429	-	-5.6	20	115	0
1,2-Dichloroethane-d4	0.391	0.336	-	14.1	20	106	0
1,2-Dichloroethane	2.572	2.742	-	-6.6	20	120	0
Trichloroethene	1.748	1.964	-	-12.4	20	123	0
1,2-Dichloropropane	1.79	2.076	-	-16	20	133	0
Bromodichloromethane	2.457	2.64	-	-7.4	20	119	0
cis-1,3-Dichloropropene	2.784	3.045	-	-9.4	20	123	0
Chlorobenzene-d5	1	1	-	0	20	120	0
Toluene-d8	1.15	1.145	-	0.4	20	118	0
Tetrachloroethene	2.321	2.515	-	-8.4	20	125	0
trans-1,3-Dichloropropene	10	10.352	-	-3.5	20	125	0
1,1,2-Trichloroethane	1.356	1.471	-	-8.5	20	129	0
Chlorodibromomethane	1.961	2.149	-	-9.6	20	130	0
1,3-Dichloropropane	2.782	3.01	-	-8.2	20	127	0
1,2-Dibromoethane	1.63	1.792	-	-9.9	20	129	0
Chlorobenzene	5.757	6.335	-	-10	20	128	0
1,1,1,2-Tetrachloroethane	1.992	2.234	-	-12.1	20	136	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	114	0
Bromoform	2.359	2.412	-	-2.2	20	127	0
4-Bromofluorobenzene	0.8	0.782	-	2.3	20	114	0
1,1,2,2-Tetrachloroethane	3.387	3.665	-	-8.2	20	126	0
2-Chlorotoluene	14.23	15.436	-	-8.5	20	115	0
4-Chlorotoluene	13.04	13.972	-	-7.1	20	118	0
1,3-Dichlorobenzene	8.882	9.693	-	-9.1	20	122	0
1,4-Dichlorobenzene	8.812	9.766	-	-10.8	20	125	0
1,2-Dichlorobenzene	8.245	8.783	-	-6.5	20	122	0
Hexachlorobutadiene	2.239	2.627	-	-17.3	20	132	0
1,2,4-Trichlorobenzene	4.502	5.013	-	-11.4	20	135	0

* Value outside of QC limits.



Calibration Verification Summary
Form 7
Volatiles

Client	: GeoInsight	Lab Number	: L2122740
Project Name	: 60 OLYMPICS	Project Number	: 2491
Instrument ID	: VOA116	Calibration Date	: 05/10/21 07:30
Lab File ID	: V16210510D01	Init. Calib. Date(s)	: 05/04/21 05/04/21
Sample No	: WG1497008-2	Init. Calib. Times	: 18:54 23:02
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	124	-.01
Dichlorodifluoromethane	0.136	0.164	-	-20.6*	20	142	0
Chloromethane	0.187	0.185	-	1.1	20	116	-.01
Vinyl chloride	0.174	0.262	-	-50.6*	20	168	0
Chloroethane	0.126	0.184	-	-46*	20	170	0
1,1-Dichloroethene	0.174	0.182	-	-4.6	20	118	0
Methylene chloride	0.202	0.194	-	4	20	114	0
trans-1,2-Dichloroethene	0.194	0.197	-	-1.5	20	120	-.01
1,1-Dichloroethane	0.353	0.365	-	-3.4	20	120	0
cis-1,2-Dichloroethene	0.228	0.225	-	1.3	20	120	0
Bromochloromethane	0.095	0.104	-	-9.5	20	126	0
Chloroform	0.384	0.391	-	-1.8	20	123	0
Carbon tetrachloride	0.282	0.314	-	-11.3	20	135	0
Dibromofluoromethane	0.253	0.269	-	-6.3	20	133	0
1,1,1-Trichloroethane	0.324	0.359	-	-10.8	20	137	0
1,1-Dichloropropene	0.265	0.281	-	-6	20	127	0
1,2-Dichloroethane-d4	0.246	0.278	-	-13	20	146	0
1,2-Dichloroethane	0.243	0.264	-	-8.6	20	141	0
Trichloroethene	0.24	0.244	-	-1.7	20	121	0
1,2-Dichloropropane	0.141	0.139	-	1.4	20	116	0
Bromodichloromethane	0.298	0.287	-	3.7	20	127	0
cis-1,3-Dichloropropene	0.355	0.35	-	1.4	20	118	0
Chlorobenzene-d5	1	1	-	0	20	138	0
Toluene-d8	1.228	1.188	-	3.3	20	129	0
Tetrachloroethene	0.331	0.34	-	-2.7	20	142	0
trans-1,3-Dichloropropene	0.367	0.361	-	1.6	20	128	0
1,1,2-Trichloroethane	0.187	0.171	-	8.6	20	119	0
Chlorodibromomethane	0.273	0.247	-	9.5	20	123	0
1,3-Dichloropropane	0.356	0.338	-	5.1	20	122	0
1,2-Dibromoethane	0.223	0.212	-	4.9	20	123	0
Chlorobenzene	0.769	0.747	-	2.9	20	128	0
1,1,2-Tetrachloroethane	0.285	0.272	-	4.6	20	130	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	143	0
Bromoform	0.37	0.291	-	21.4*	20	134	0
4-Bromofluorobenzene	0.792	0.779	-	1.6	20	140	0
1,1,2,2-Tetrachloroethane	0.393	0.37	-	5.9	20	126	0
2-Chlorotoluene	1.873	1.808	-	3.5	20	128	0
4-Chlorotoluene	1.692	1.63	-	3.7	20	127	0
1,3-Dichlorobenzene	1.204	1.173	-	2.6	20	134	0
1,4-Dichlorobenzene	1.188	1.188	-	0	20	141	0
1,2-Dichlorobenzene	1.081	1.047	-	3.1	20	135	0
Hexachlorobutadiene	10	9.937	-	0.6	20	150	0
1,2,4-Trichlorobenzene	0.736	0.711	-	3.4	20	146	0

* Value outside of QC limits.



Calibration Verification Summary
Form 7
Volatiles

Client	:	GeoInsight	Lab Number	:	L2122740
Project Name	:	60 OLYMPICS	Project Number	:	2491
Instrument ID	:	QUIMBY	Calibration Date	:	05/11/21 04:56
Lab File ID	:	VQ210511A02	Init. Calib. Date(s)	:	04/11/21 04/11/21
Sample No	:	WG1497145-2	Init. Calib. Times	:	16:44 21:47
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	69	0
Dichlorodifluoromethane	0.715	0.731	-	-2.2	20	66	0
Chloromethane	1.089	0.986	-	9.5	20	60	0
Vinyl chloride	0.844	0.859	-	-1.8	20	66	0
Bromomethane	0.461	0.438	-	5	20	63	0
Chloroethane	0.521	0.52	-	0.2	20	65	0
Trichlorofluoromethane	1.198	1.501	-	-25.3*	20	82	0
Ethyl ether	0.275	0.298	-	-8.4	20	73	0
1,1-Dichloroethene	0.654	0.637	-	2.6	20	65	0
Carbon disulfide	1.842	1.797	-	2.4	20	65	0
Methylene chloride	0.709	0.699	-	1.4	20	65	0
Acetone	10	13.635	-	-36.4*	20	95	0
trans-1,2-Dichloroethene	0.781	0.736	-	5.8	20	62	0
Methyl tert-butyl ether	1.417	1.666	-	-17.6	20	81	0
Diisopropyl ether	2.883	3.317	-	-15.1	20	78	0
1,1-Dichloroethane	1.547	1.551	-	-0.3	20	66	0
Ethyl tert-butyl ether	2.062	2.402	-	-16.5	20	79	0
cis-1,2-Dichloroethene	0.828	0.813	-	1.8	20	65	0
2,2-Dichloropropane	1.253	1.489	-	-18.8	20	79	0
Bromochloromethane	0.339	0.399	-	-17.7	20	78	0
Chloroform	1.426	1.525	-	-6.9	20	71	0
Carbon tetrachloride	1.277	1.564	-	-22.5*	20	80	0
Tetrahydrofuran	0.171	0.207	-	-21.1*	20	85	0
Dibromofluoromethane	0.291	0.301	-	-3.4	20	71	0
1,1,1-Trichloroethane	1.461	1.665	-	-14	20	76	0
2-Butanone	0.19	0.242	-	-27.4*	20	85	0
1,1-Dichloropropene	1.115	1.119	-	-0.4	20	67	0
Benzene	3.027	2.911	-	3.8	20	63	0
tert-Amyl methyl ether	1.521	1.686	-	-10.8	20	76	0
1,2-Dichloroethane-d4	0.282	0.332	-	-17.7	20	85	0
1,2-Dichloroethane	0.858	1.123	-	-30.9*	20	88	0
Trichloroethene	0.896	0.869	-	3	20	67	0
Dibromomethane	0.344	0.383	-	-11.3	20	74	0
1,2-Dichloropropane	0.753	0.742	-	1.5	20	66	0
Bromodichloromethane	0.987	1.111	-	-12.6	20	76	0
1,4-Dioxane	0.00307	0.00298*	-	2.9	20	67	0
cis-1,3-Dichloropropene	1.059	1.159	-	-9.4	20	74	0
Chlorobenzene-d5	1	1	-	0	20	67	-0.01
Toluene-d8	1.077	1.017	-	5.6	20	64	-0.01
Toluene	1.629	1.616	-	0.8	20	64	0
4-Methyl-2-pentanone	10	9.999	-	0	20	77	0
Tetrachloroethene	0.709	0.853	-	-20.3*	20	78	0
trans-1,3-Dichloropropene	0.736	0.848	-	-15.2	20	77	0

* Value outside of QC limits.



Calibration Verification Summary
Form 7
Volatiles

Client	:	GeoInsight	Lab Number	:	L2122740
Project Name	:	60 OLYMPICS	Project Number	:	2491
Instrument ID	:	QUIMBY	Calibration Date	:	05/11/21 04:56
Lab File ID	:	VQ210511A02	Init. Calib. Date(s)	:	04/11/21 04/11/21
Sample No	:	WG1497145-2	Init. Calib. Times	:	16:44 21:47
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,1,2-Trichloroethane	0.325	0.339	-	-4.3	20	69	0
Chlorodibromomethane	0.512	0.635	-	-24*	20	82	0
1,3-Dichloroproppane	0.692	0.734	-	-6.1	20	71	0
1,2-Dibromoethane	0.368	0.419	-	-13.9	20	77	0
2-Hexanone	10	11.4	-	-14	20	89	0
Chlorobenzene	1.757	1.872	-	-6.5	20	69	0
Ethylbenzene	3.145	3.289	-	-4.6	20	64	0
1,1,2,2-Tetrachloroethane	0.626	0.761	-	-21.6*	20	80	0
p/m Xylene	20	20.817	-	-4.1	20	70	-.02
o Xylene	20	21.352	-	-6.8	20	72	-.01
Styrene	20	21.888	-	-9.4	20	74	-.01
1,4-Dichlorobenzene-d4	1	1	-	0	20	90	0
Bromoform	0.517	0.547	-	-5.8	20	91	0
Isopropylbenzene	6.172	5.207	-	15.6	20	68	-.01
4-Bromofluorobenzene	0.997	0.76	-	23.8*	20	68	0
Bromobenzene	1.257	1.201	-	4.5	20	80	-.01
n-Propylbenzene	6.845	6.067	-	11.4	20	74	0
1,1,2,2-Tetrachloroethane	0.764	0.627	-	17.9	20	70	0
2-Chlorotoluene	4.764	4.24	-	11	20	75	-.01
1,3,5-Trimethylbenzene	3.876	4.49	-	-15.8	20	100	0
1,2,3-Trichloroproppane	0.635	0.564	-	11.2	20	76	0
4-Chlorotoluene	4.01	3.762	-	6.2	20	80	-.01
tert-Butylbenzene	4.263	4.132	-	3.1	20	81	-.01
1,2,4-Trimethylbenzene	3.462	4.27	-	-23.3*	20	106	0
sec-Butylbenzene	5.424	4.937	-	9	20	77	0
p-Isopropyltoluene	10	10.036	-	-0.4	20	95	0
1,3-Dichlorobenzene	2.441	2.576	-	-5.5	20	90	0
1,4-Dichlorobenzene	2.306	2.55	-	-10.6	20	96	0
n-Butylbenzene	10	10.232	-	-2.3	20	95	0
1,2-Dichlorobenzene	2.108	2.263	-	-7.4	20	91	0
1,2-Dibromo-3-chloropropan	0.11	0.105	-	4.5	20	82	0
Hexachlorobutadiene	0.787	0.708	-	10	20	81	0
1,2,4-Trichlorobenzene	0.939	1.196	-	-27.4*	20	117	0
Naphthalene	1.416	1.539	-	-8.7	20	93	0
1,2,3-Trichlorobenzene	0.783	1.03	-	-31.5*	20	110	0

* Value outside of QC limits.





ANALYTICAL REPORT

Lab Number:	L2153546
Client:	GeoInsight One Monarch Drive Littleton, MA 01460
ATTN:	Christene Binger
Phone:	(978) 679-1600
Project Name:	60 OLYMPIA-FDDA
Project Number:	2491
Report Date:	10/06/21

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 60 OLYMPIA-FDDA
Project Number: 2491

Lab Number: L2153546
Report Date: 10/06/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2153546-01	MW-211D	WATER	WOBURN, MA	09/24/21 11:20	10/01/21
L2153546-02	MW-212S	WATER	WOBURN, MA	09/24/21 10:20	10/01/21
L2153546-03	MW-209S	WATER	WOBURN, MA	09/24/21 10:18	10/01/21
L2153546-04	MW-208D	WATER	WOBURN, MA	09/24/21 10:10	10/01/21
L2153546-05	MW-215M	WATER	WOBURN, MA	09/24/21 11:10	10/01/21
L2153546-06	MW-201D	WATER	WOBURN, MA	09/24/21 09:55	10/01/21
L2153546-07	MW-209D	WATER	WOBURN, MA	09/24/21 10:32	10/01/21
L2153546-08	MW-206D	WATER	WOBURN, MA	09/24/21 09:45	10/01/21
L2153546-09	MW-216S	WATER	WOBURN, MA	09/24/21 11:30	10/01/21
L2153546-10	MW-213S	WATER	WOBURN, MA	09/24/21 10:30	10/01/21
L2153546-11	MW-205D	WATER	WOBURN, MA	09/24/21 09:40	10/01/21
L2153546-12	MW-201S	WATER	WOBURN, MA	09/24/21 09:40	10/01/21
L2153546-13	MW-207S	WATER	WOBURN, MA	09/24/21 09:57	10/01/21
L2153546-14	MW-218M	WATER	WOBURN, MA	09/24/21 11:40	10/01/21
L2153546-15	MW-210S	WATER	WOBURN, MA	09/24/21 10:35	10/01/21
L2153546-16	MW-217M	WATER	WOBURN, MA	09/24/21 11:42	10/01/21

Project Name: 60 OLYMPIA-FDDA
Project Number: 2491

Lab Number: L2153546
Report Date: 10/06/21

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	NO
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: 60 OLYMPIA-FDDA
Project Number: 2491

Lab Number: L2153546
Report Date: 10/06/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 60 OLYMPIA-FDDA
Project Number: 2491

Lab Number: L2153546
Report Date: 10/06/21

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question A:

The samples were received at the laboratory above the required temperature range and were not on ice.

Volatile Organics

L2153546-04D, -09D, and -16D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

In reference to question A:

L2153546-04D and -11D were received in the proper acid-preserved containers; however, upon analysis, the pH was determined to be greater than 2, and thus the method required holding time was exceeded.

In reference to question G:

L2153546-01D, -02D, -03D, -04D, -05D, -07D, -08D, -09D, -10D, -11D, -13D, -15D, and -16D: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L2153546-01D, -02D, -03D, -04D, -05D, -06, -07D, -08D, -09D, -10D, -11D, -12, -13D, -14, -15D, and -16D: The associated continuing calibration standard is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

In reference to question I:

All samples were analyzed for a subset of MCP analytes per client request.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 10/06/21

QC OUTLIER SUMMARY REPORT

Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Volatile Organics - Westborough Lab								
8260C	Batch QC	WG1554939-3	Chloromethane	LCS	140	70-130	01-16	potential high bias
8260C	Batch QC	WG1554939-3	Chloroethane	LCS	140	70-130	01-16	potential high bias
8260C	Batch QC	WG1554939-3	Dichlorodifluoromethane	LCS	140	70-130	01-16	potential high bias

ORGANICS



VOLATILES



Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-01	D	Date Collected:	09/24/21 11:20
Client ID:	MW-211D		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 10/05/21 13:13
 Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	10	--	5	
1,1-Dichloroethane	ND	ug/l	5.0	--	5	
Chloroform	ND	ug/l	5.0	--	5	
Carbon tetrachloride	ND	ug/l	5.0	--	5	
1,2-Dichloropropane	ND	ug/l	5.0	--	5	
Dibromochloromethane	ND	ug/l	5.0	--	5	
1,1,2-Trichloroethane	ND	ug/l	5.0	--	5	
Tetrachloroethene	ND	ug/l	5.0	--	5	
Chlorobenzene	ND	ug/l	5.0	--	5	
1,2-Dichloroethane	ND	ug/l	5.0	--	5	
1,1,1-Trichloroethane	ND	ug/l	5.0	--	5	
Bromodichloromethane	ND	ug/l	5.0	--	5	
trans-1,3-Dichloropropene	ND	ug/l	2.0	--	5	
cis-1,3-Dichloropropene	ND	ug/l	2.0	--	5	
1,3-Dichloropropene, Total	ND	ug/l	2.0	--	5	
Bromoform	ND	ug/l	10	--	5	
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	--	5	
Chloromethane	ND	ug/l	10	--	5	
Vinyl chloride	59	ug/l	5.0	--	5	
Chloroethane	ND	ug/l	10	--	5	
1,1-Dichloroethene	ND	ug/l	5.0	--	5	
trans-1,2-Dichloroethene	5.9	ug/l	5.0	--	5	
Trichloroethene	20	ug/l	5.0	--	5	
1,2-Dichlorobenzene	ND	ug/l	5.0	--	5	
1,3-Dichlorobenzene	ND	ug/l	5.0	--	5	
1,4-Dichlorobenzene	ND	ug/l	5.0	--	5	
cis-1,2-Dichloroethene	810	ug/l	5.0	--	5	
1,2-Dichloroethene, Total	820	ug/l	5.0	--	5	



Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-01	D	Date Collected:	09/24/21 11:20
Client ID:	MW-211D		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	10	--	5
1,2-Dibromoethane	ND		ug/l	10	--	5
1,3-Dichloropropane	ND		ug/l	10	--	5
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	--	5
o-Chlorotoluene	ND		ug/l	10	--	5
p-Chlorotoluene	ND		ug/l	10	--	5
Hexachlorobutadiene	ND		ug/l	3.0	--	5
1,2,4-Trichlorobenzene	ND		ug/l	10	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	103		70-130

Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-02	D	Date Collected:	09/24/21 10:20
Client ID:	MW-212S		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 10/05/21 13:43
 Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	80	--	40	
1,1-Dichloroethane	ND	ug/l	40	--	40	
Chloroform	ND	ug/l	40	--	40	
Carbon tetrachloride	ND	ug/l	40	--	40	
1,2-Dichloropropane	ND	ug/l	40	--	40	
Dibromochloromethane	ND	ug/l	40	--	40	
1,1,2-Trichloroethane	ND	ug/l	40	--	40	
Tetrachloroethene	88	ug/l	40	--	40	
Chlorobenzene	ND	ug/l	40	--	40	
1,2-Dichloroethane	ND	ug/l	40	--	40	
1,1,1-Trichloroethane	ND	ug/l	40	--	40	
Bromodichloromethane	ND	ug/l	40	--	40	
trans-1,3-Dichloropropene	ND	ug/l	16	--	40	
cis-1,3-Dichloropropene	ND	ug/l	16	--	40	
1,3-Dichloropropene, Total	ND	ug/l	16	--	40	
Bromoform	ND	ug/l	80	--	40	
1,1,2,2-Tetrachloroethane	ND	ug/l	40	--	40	
Chloromethane	ND	ug/l	80	--	40	
Vinyl chloride	ND	ug/l	40	--	40	
Chloroethane	ND	ug/l	80	--	40	
1,1-Dichloroethene	ND	ug/l	40	--	40	
trans-1,2-Dichloroethene	ND	ug/l	40	--	40	
Trichloroethene	4900	ug/l	40	--	40	
1,2-Dichlorobenzene	ND	ug/l	40	--	40	
1,3-Dichlorobenzene	ND	ug/l	40	--	40	
1,4-Dichlorobenzene	ND	ug/l	40	--	40	
cis-1,2-Dichloroethene	ND	ug/l	40	--	40	
1,2-Dichloroethene, Total	ND	ug/l	40	--	40	



Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-02	D	Date Collected:	09/24/21 10:20
Client ID:	MW-212S		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	80	--	40
1,2-Dibromoethane	ND		ug/l	80	--	40
1,3-Dichloropropane	ND		ug/l	80	--	40
1,1,1,2-Tetrachloroethane	ND		ug/l	40	--	40
o-Chlorotoluene	ND		ug/l	80	--	40
p-Chlorotoluene	ND		ug/l	80	--	40
Hexachlorobutadiene	ND		ug/l	24	--	40
1,2,4-Trichlorobenzene	ND		ug/l	80	--	40

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	104		70-130

Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-03	D	Date Collected:	09/24/21 10:18
Client ID:	MW-209S		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 10/05/21 14:14
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	4.0	--	2	
1,1-Dichloroethane	ND	ug/l	2.0	--	2	
Chloroform	ND	ug/l	2.0	--	2	
Carbon tetrachloride	ND	ug/l	2.0	--	2	
1,2-Dichloropropane	ND	ug/l	2.0	--	2	
Dibromochloromethane	ND	ug/l	2.0	--	2	
1,1,2-Trichloroethane	ND	ug/l	2.0	--	2	
Tetrachloroethene	22	ug/l	2.0	--	2	
Chlorobenzene	ND	ug/l	2.0	--	2	
1,2-Dichloroethane	ND	ug/l	2.0	--	2	
1,1,1-Trichloroethane	ND	ug/l	2.0	--	2	
Bromodichloromethane	ND	ug/l	2.0	--	2	
trans-1,3-Dichloropropene	ND	ug/l	0.80	--	2	
cis-1,3-Dichloropropene	ND	ug/l	0.80	--	2	
1,3-Dichloropropene, Total	ND	ug/l	0.80	--	2	
Bromoform	ND	ug/l	4.0	--	2	
1,1,2,2-Tetrachloroethane	ND	ug/l	2.0	--	2	
Chloromethane	ND	ug/l	4.0	--	2	
Vinyl chloride	ND	ug/l	2.0	--	2	
Chloroethane	ND	ug/l	4.0	--	2	
1,1-Dichloroethene	ND	ug/l	2.0	--	2	
trans-1,2-Dichloroethene	ND	ug/l	2.0	--	2	
Trichloroethene	210	ug/l	2.0	--	2	
1,2-Dichlorobenzene	7.0	ug/l	2.0	--	2	
1,3-Dichlorobenzene	ND	ug/l	2.0	--	2	
1,4-Dichlorobenzene	ND	ug/l	2.0	--	2	
cis-1,2-Dichloroethene	5.3	ug/l	2.0	--	2	
1,2-Dichloroethene, Total	5.3	ug/l	2.0	--	2	



Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-03	D	Date Collected:	09/24/21 10:18
Client ID:	MW-209S		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	4.0	--	2
1,2-Dibromoethane	ND		ug/l	4.0	--	2
1,3-Dichloropropane	ND		ug/l	4.0	--	2
1,1,1,2-Tetrachloroethane	ND		ug/l	2.0	--	2
o-Chlorotoluene	ND		ug/l	4.0	--	2
p-Chlorotoluene	ND		ug/l	4.0	--	2
Hexachlorobutadiene	ND		ug/l	1.2	--	2
1,2,4-Trichlorobenzene	ND		ug/l	4.0	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	105		70-130

Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-04	D	Date Collected:	09/24/21 10:10
Client ID:	MW-208D		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 97,8260C

Analytical Date: 10/05/21 14:44

Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	5.0	--	2.5	
1,1-Dichloroethane	ND	ug/l	2.5	--	2.5	
Chloroform	23	ug/l	2.5	--	2.5	
Carbon tetrachloride	ND	ug/l	2.5	--	2.5	
1,2-Dichloropropane	ND	ug/l	2.5	--	2.5	
Dibromochloromethane	ND	ug/l	2.5	--	2.5	
1,1,2-Trichloroethane	ND	ug/l	2.5	--	2.5	
Tetrachloroethene	2.6	ug/l	2.5	--	2.5	
Chlorobenzene	ND	ug/l	2.5	--	2.5	
1,2-Dichloroethane	ND	ug/l	2.5	--	2.5	
1,1,1-Trichloroethane	ND	ug/l	2.5	--	2.5	
Bromodichloromethane	ND	ug/l	2.5	--	2.5	
trans-1,3-Dichloropropene	ND	ug/l	1.0	--	2.5	
cis-1,3-Dichloropropene	ND	ug/l	1.0	--	2.5	
1,3-Dichloropropene, Total	ND	ug/l	1.0	--	2.5	
Bromoform	ND	ug/l	5.0	--	2.5	
1,1,2,2-Tetrachloroethane	ND	ug/l	2.5	--	2.5	
Chloromethane	ND	ug/l	5.0	--	2.5	
Vinyl chloride	ND	ug/l	2.5	--	2.5	
Chloroethane	ND	ug/l	5.0	--	2.5	
1,1-Dichloroethene	ND	ug/l	2.5	--	2.5	
trans-1,2-Dichloroethene	ND	ug/l	2.5	--	2.5	
Trichloroethene	48	ug/l	2.5	--	2.5	
1,2-Dichlorobenzene	11	ug/l	2.5	--	2.5	
1,3-Dichlorobenzene	ND	ug/l	2.5	--	2.5	
1,4-Dichlorobenzene	ND	ug/l	2.5	--	2.5	
cis-1,2-Dichloroethene	41	ug/l	2.5	--	2.5	
1,2-Dichloroethene, Total	41	ug/l	2.5	--	2.5	



Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-04	D	Date Collected:	09/24/21 10:10
Client ID:	MW-208D		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	--	2.5
1,2-Dibromoethane	ND		ug/l	5.0	--	2.5
1,3-Dichloropropane	ND		ug/l	5.0	--	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	--	2.5
o-Chlorotoluene	ND		ug/l	5.0	--	2.5
p-Chlorotoluene	ND		ug/l	5.0	--	2.5
Hexachlorobutadiene	ND		ug/l	1.5	--	2.5
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-05	D	Date Collected:	09/24/21 11:10
Client ID:	MW-215M		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 10/05/21 15:14
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	10	--	5	
1,1-Dichloroethane	ND	ug/l	5.0	--	5	
Chloroform	ND	ug/l	5.0	--	5	
Carbon tetrachloride	ND	ug/l	5.0	--	5	
1,2-Dichloropropane	ND	ug/l	5.0	--	5	
Dibromochloromethane	ND	ug/l	5.0	--	5	
1,1,2-Trichloroethane	ND	ug/l	5.0	--	5	
Tetrachloroethene	ND	ug/l	5.0	--	5	
Chlorobenzene	ND	ug/l	5.0	--	5	
1,2-Dichloroethane	ND	ug/l	5.0	--	5	
1,1,1-Trichloroethane	ND	ug/l	5.0	--	5	
Bromodichloromethane	ND	ug/l	5.0	--	5	
trans-1,3-Dichloropropene	ND	ug/l	2.0	--	5	
cis-1,3-Dichloropropene	ND	ug/l	2.0	--	5	
1,3-Dichloropropene, Total	ND	ug/l	2.0	--	5	
Bromoform	ND	ug/l	10	--	5	
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	--	5	
Chloromethane	ND	ug/l	10	--	5	
Vinyl chloride	ND	ug/l	5.0	--	5	
Chloroethane	ND	ug/l	10	--	5	
1,1-Dichloroethene	ND	ug/l	5.0	--	5	
trans-1,2-Dichloroethene	ND	ug/l	5.0	--	5	
Trichloroethene	550	ug/l	5.0	--	5	
1,2-Dichlorobenzene	ND	ug/l	5.0	--	5	
1,3-Dichlorobenzene	ND	ug/l	5.0	--	5	
1,4-Dichlorobenzene	ND	ug/l	5.0	--	5	
cis-1,2-Dichloroethene	680	ug/l	5.0	--	5	
1,2-Dichloroethene, Total	680	ug/l	5.0	--	5	



Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-05	D	Date Collected:	09/24/21 11:10
Client ID:	MW-215M		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	10	--	5
1,2-Dibromoethane	ND		ug/l	10	--	5
1,3-Dichloropropane	ND		ug/l	10	--	5
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	--	5
o-Chlorotoluene	ND		ug/l	10	--	5
p-Chlorotoluene	ND		ug/l	10	--	5
Hexachlorobutadiene	ND		ug/l	3.0	--	5
1,2,4-Trichlorobenzene	ND		ug/l	10	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	104		70-130

Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153546-06
 Client ID: MW-201D
 Sample Location: WOBURN, MA

Date Collected: 09/24/21 09:55
 Date Received: 10/01/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 10/05/21 11:42
 Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	1	
1,1-Dichloroethane	ND	ug/l	1.0	--	1	
Chloroform	ND	ug/l	1.0	--	1	
Carbon tetrachloride	ND	ug/l	1.0	--	1	
1,2-Dichloropropane	ND	ug/l	1.0	--	1	
Dibromochloromethane	ND	ug/l	1.0	--	1	
1,1,2-Trichloroethane	ND	ug/l	1.0	--	1	
Tetrachloroethene	2.2	ug/l	1.0	--	1	
Chlorobenzene	ND	ug/l	1.0	--	1	
1,2-Dichloroethane	ND	ug/l	1.0	--	1	
1,1,1-Trichloroethane	ND	ug/l	1.0	--	1	
Bromodichloromethane	ND	ug/l	1.0	--	1	
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	1	
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	1	
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	1	
Bromoform	ND	ug/l	2.0	--	1	
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	1	
Chloromethane	ND	ug/l	2.0	--	1	
Vinyl chloride	ND	ug/l	1.0	--	1	
Chloroethane	ND	ug/l	2.0	--	1	
1,1-Dichloroethene	ND	ug/l	1.0	--	1	
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	1	
Trichloroethene	170	ug/l	1.0	--	1	
1,2-Dichlorobenzene	ND	ug/l	1.0	--	1	
1,3-Dichlorobenzene	ND	ug/l	1.0	--	1	
1,4-Dichlorobenzene	ND	ug/l	1.0	--	1	
cis-1,2-Dichloroethene	7.0	ug/l	1.0	--	1	
1,2-Dichloroethene, Total	7.0	ug/l	1.0	--	1	



Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-06	Date Collected:	09/24/21 09:55
Client ID:	MW-201D	Date Received:	10/01/21
Sample Location:	WOBURN, MA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-07	D	Date Collected:	09/24/21 10:32
Client ID:	MW-209D		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 10/05/21 15:45
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	4.0	--	2	
1,1-Dichloroethane	ND	ug/l	2.0	--	2	
Chloroform	3.3	ug/l	2.0	--	2	
Carbon tetrachloride	ND	ug/l	2.0	--	2	
1,2-Dichloropropane	ND	ug/l	2.0	--	2	
Dibromochloromethane	ND	ug/l	2.0	--	2	
1,1,2-Trichloroethane	ND	ug/l	2.0	--	2	
Tetrachloroethene	3.5	ug/l	2.0	--	2	
Chlorobenzene	ND	ug/l	2.0	--	2	
1,2-Dichloroethane	ND	ug/l	2.0	--	2	
1,1,1-Trichloroethane	ND	ug/l	2.0	--	2	
Bromodichloromethane	ND	ug/l	2.0	--	2	
trans-1,3-Dichloropropene	ND	ug/l	0.80	--	2	
cis-1,3-Dichloropropene	ND	ug/l	0.80	--	2	
1,3-Dichloropropene, Total	ND	ug/l	0.80	--	2	
Bromoform	ND	ug/l	4.0	--	2	
1,1,2,2-Tetrachloroethane	ND	ug/l	2.0	--	2	
Chloromethane	ND	ug/l	4.0	--	2	
Vinyl chloride	ND	ug/l	2.0	--	2	
Chloroethane	ND	ug/l	4.0	--	2	
1,1-Dichloroethene	ND	ug/l	2.0	--	2	
trans-1,2-Dichloroethene	2.2	ug/l	2.0	--	2	
Trichloroethene	180	ug/l	2.0	--	2	
1,2-Dichlorobenzene	4.0	ug/l	2.0	--	2	
1,3-Dichlorobenzene	ND	ug/l	2.0	--	2	
1,4-Dichlorobenzene	ND	ug/l	2.0	--	2	
cis-1,2-Dichloroethene	180	ug/l	2.0	--	2	
1,2-Dichloroethene, Total	180	ug/l	2.0	--	2	



Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-07	D	Date Collected:	09/24/21 10:32
Client ID:	MW-209D		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	4.0	--	2
1,2-Dibromoethane	ND		ug/l	4.0	--	2
1,3-Dichloropropane	ND		ug/l	4.0	--	2
1,1,1,2-Tetrachloroethane	ND		ug/l	2.0	--	2
o-Chlorotoluene	ND		ug/l	4.0	--	2
p-Chlorotoluene	ND		ug/l	4.0	--	2
Hexachlorobutadiene	ND		ug/l	1.2	--	2
1,2,4-Trichlorobenzene	ND		ug/l	4.0	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-08	D	Date Collected:	09/24/21 09:45
Client ID:	MW-206D		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 10/05/21 16:15
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	40	--	20	
1,1-Dichloroethane	ND	ug/l	20	--	20	
Chloroform	ND	ug/l	20	--	20	
Carbon tetrachloride	ND	ug/l	20	--	20	
1,2-Dichloropropane	ND	ug/l	20	--	20	
Dibromochloromethane	ND	ug/l	20	--	20	
1,1,2-Trichloroethane	ND	ug/l	20	--	20	
Tetrachloroethene	ND	ug/l	20	--	20	
Chlorobenzene	ND	ug/l	20	--	20	
1,2-Dichloroethane	ND	ug/l	20	--	20	
1,1,1-Trichloroethane	ND	ug/l	20	--	20	
Bromodichloromethane	ND	ug/l	20	--	20	
trans-1,3-Dichloropropene	ND	ug/l	8.0	--	20	
cis-1,3-Dichloropropene	ND	ug/l	8.0	--	20	
1,3-Dichloropropene, Total	ND	ug/l	8.0	--	20	
Bromoform	ND	ug/l	40	--	20	
1,1,2,2-Tetrachloroethane	ND	ug/l	20	--	20	
Chloromethane	ND	ug/l	40	--	20	
Vinyl chloride	ND	ug/l	20	--	20	
Chloroethane	ND	ug/l	40	--	20	
1,1-Dichloroethene	ND	ug/l	20	--	20	
trans-1,2-Dichloroethene	ND	ug/l	20	--	20	
Trichloroethene	2200	ug/l	20	--	20	
1,2-Dichlorobenzene	ND	ug/l	20	--	20	
1,3-Dichlorobenzene	ND	ug/l	20	--	20	
1,4-Dichlorobenzene	ND	ug/l	20	--	20	
cis-1,2-Dichloroethene	430	ug/l	20	--	20	
1,2-Dichloroethene, Total	430	ug/l	20	--	20	



Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-08	D	Date Collected:	09/24/21 09:45
Client ID:	MW-206D		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	40	--	20
1,2-Dibromoethane	ND		ug/l	40	--	20
1,3-Dichloropropane	ND		ug/l	40	--	20
1,1,1,2-Tetrachloroethane	ND		ug/l	20	--	20
o-Chlorotoluene	ND		ug/l	40	--	20
p-Chlorotoluene	ND		ug/l	40	--	20
Hexachlorobutadiene	ND		ug/l	12	--	20
1,2,4-Trichlorobenzene	ND		ug/l	40	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	106		70-130

Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-09	D	Date Collected:	09/24/21 11:30
Client ID:	MW-216S		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 97,8260C

Analytical Date: 10/05/21 16:45

Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	20	--	10	
1,1-Dichloroethane	ND	ug/l	10	--	10	
Chloroform	110	ug/l	10	--	10	
Carbon tetrachloride	ND	ug/l	10	--	10	
1,2-Dichloropropane	ND	ug/l	10	--	10	
Dibromochloromethane	ND	ug/l	10	--	10	
1,1,2-Trichloroethane	ND	ug/l	10	--	10	
Tetrachloroethene	ND	ug/l	10	--	10	
Chlorobenzene	ND	ug/l	10	--	10	
1,2-Dichloroethane	ND	ug/l	10	--	10	
1,1,1-Trichloroethane	ND	ug/l	10	--	10	
Bromodichloromethane	ND	ug/l	10	--	10	
trans-1,3-Dichloropropene	ND	ug/l	4.0	--	10	
cis-1,3-Dichloropropene	ND	ug/l	4.0	--	10	
1,3-Dichloropropene, Total	ND	ug/l	4.0	--	10	
Bromoform	ND	ug/l	20	--	10	
1,1,2,2-Tetrachloroethane	ND	ug/l	10	--	10	
Chloromethane	ND	ug/l	20	--	10	
Vinyl chloride	ND	ug/l	10	--	10	
Chloroethane	ND	ug/l	20	--	10	
1,1-Dichloroethene	ND	ug/l	10	--	10	
trans-1,2-Dichloroethene	ND	ug/l	10	--	10	
Trichloroethene	40	ug/l	10	--	10	
1,2-Dichlorobenzene	15	ug/l	10	--	10	
1,3-Dichlorobenzene	ND	ug/l	10	--	10	
1,4-Dichlorobenzene	ND	ug/l	10	--	10	
cis-1,2-Dichloroethene	60	ug/l	10	--	10	
1,2-Dichloroethene, Total	60	ug/l	10	--	10	



Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-09	D	Date Collected:	09/24/21 11:30
Client ID:	MW-216S		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	20	--	10
1,2-Dibromoethane	ND		ug/l	20	--	10
1,3-Dichloropropane	ND		ug/l	20	--	10
1,1,1,2-Tetrachloroethane	ND		ug/l	10	--	10
o-Chlorotoluene	ND		ug/l	20	--	10
p-Chlorotoluene	ND		ug/l	20	--	10
Hexachlorobutadiene	ND		ug/l	6.0	--	10
1,2,4-Trichlorobenzene	ND		ug/l	20	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	104		70-130

Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-10	D	Date Collected:	09/24/21 10:30
Client ID:	MW-213S		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 10/05/21 17:16
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	5.0	--	2.5	
1,1-Dichloroethane	ND	ug/l	2.5	--	2.5	
Chloroform	ND	ug/l	2.5	--	2.5	
Carbon tetrachloride	ND	ug/l	2.5	--	2.5	
1,2-Dichloropropane	ND	ug/l	2.5	--	2.5	
Dibromochloromethane	ND	ug/l	2.5	--	2.5	
1,1,2-Trichloroethane	ND	ug/l	2.5	--	2.5	
Tetrachloroethene	46	ug/l	2.5	--	2.5	
Chlorobenzene	ND	ug/l	2.5	--	2.5	
1,2-Dichloroethane	ND	ug/l	2.5	--	2.5	
1,1,1-Trichloroethane	ND	ug/l	2.5	--	2.5	
Bromodichloromethane	ND	ug/l	2.5	--	2.5	
trans-1,3-Dichloropropene	ND	ug/l	1.0	--	2.5	
cis-1,3-Dichloropropene	ND	ug/l	1.0	--	2.5	
1,3-Dichloropropene, Total	ND	ug/l	1.0	--	2.5	
Bromoform	ND	ug/l	5.0	--	2.5	
1,1,2,2-Tetrachloroethane	ND	ug/l	2.5	--	2.5	
Chloromethane	ND	ug/l	5.0	--	2.5	
Vinyl chloride	2.8	ug/l	2.5	--	2.5	
Chloroethane	ND	ug/l	5.0	--	2.5	
1,1-Dichloroethene	ND	ug/l	2.5	--	2.5	
trans-1,2-Dichloroethene	ND	ug/l	2.5	--	2.5	
Trichloroethene	340	ug/l	2.5	--	2.5	
1,2-Dichlorobenzene	2.7	ug/l	2.5	--	2.5	
1,3-Dichlorobenzene	ND	ug/l	2.5	--	2.5	
1,4-Dichlorobenzene	ND	ug/l	2.5	--	2.5	
cis-1,2-Dichloroethene	180	ug/l	2.5	--	2.5	
1,2-Dichloroethene, Total	180	ug/l	2.5	--	2.5	



Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-10	D	Date Collected:	09/24/21 10:30
Client ID:	MW-213S		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	--	2.5
1,2-Dibromoethane	ND		ug/l	5.0	--	2.5
1,3-Dichloropropane	ND		ug/l	5.0	--	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	--	2.5
o-Chlorotoluene	ND		ug/l	5.0	--	2.5
p-Chlorotoluene	ND		ug/l	5.0	--	2.5
Hexachlorobutadiene	ND		ug/l	1.5	--	2.5
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-11	D	Date Collected:	09/24/21 09:40
Client ID:	MW-205D		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 10/05/21 17:46
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	80	--	40	
1,1-Dichloroethane	ND	ug/l	40	--	40	
Chloroform	ND	ug/l	40	--	40	
Carbon tetrachloride	ND	ug/l	40	--	40	
1,2-Dichloropropane	ND	ug/l	40	--	40	
Dibromochloromethane	ND	ug/l	40	--	40	
1,1,2-Trichloroethane	ND	ug/l	40	--	40	
Tetrachloroethene	ND	ug/l	40	--	40	
Chlorobenzene	ND	ug/l	40	--	40	
1,2-Dichloroethane	ND	ug/l	40	--	40	
1,1,1-Trichloroethane	ND	ug/l	40	--	40	
Bromodichloromethane	ND	ug/l	40	--	40	
trans-1,3-Dichloropropene	ND	ug/l	16	--	40	
cis-1,3-Dichloropropene	ND	ug/l	16	--	40	
1,3-Dichloropropene, Total	ND	ug/l	16	--	40	
Bromoform	ND	ug/l	80	--	40	
1,1,2,2-Tetrachloroethane	ND	ug/l	40	--	40	
Chloromethane	ND	ug/l	80	--	40	
Vinyl chloride	ND	ug/l	40	--	40	
Chloroethane	ND	ug/l	80	--	40	
1,1-Dichloroethene	ND	ug/l	40	--	40	
trans-1,2-Dichloroethene	ND	ug/l	40	--	40	
Trichloroethene	3600	ug/l	40	--	40	
1,2-Dichlorobenzene	ND	ug/l	40	--	40	
1,3-Dichlorobenzene	ND	ug/l	40	--	40	
1,4-Dichlorobenzene	ND	ug/l	40	--	40	
cis-1,2-Dichloroethene	120	ug/l	40	--	40	
1,2-Dichloroethene, Total	120	ug/l	40	--	40	



Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-11	D	Date Collected:	09/24/21 09:40
Client ID:	MW-205D		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	80	--	40
1,2-Dibromoethane	ND		ug/l	80	--	40
1,3-Dichloropropane	ND		ug/l	80	--	40
1,1,1,2-Tetrachloroethane	ND		ug/l	40	--	40
o-Chlorotoluene	ND		ug/l	80	--	40
p-Chlorotoluene	ND		ug/l	80	--	40
Hexachlorobutadiene	ND		ug/l	24	--	40
1,2,4-Trichlorobenzene	ND		ug/l	80	--	40

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	105		70-130

Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153546-12
 Client ID: MW-201S
 Sample Location: WOBURN, MA

Date Collected: 09/24/21 09:40
 Date Received: 10/01/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 10/05/21 12:13
 Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	1	
1,1-Dichloroethane	ND	ug/l	1.0	--	1	
Chloroform	ND	ug/l	1.0	--	1	
Carbon tetrachloride	ND	ug/l	1.0	--	1	
1,2-Dichloropropane	ND	ug/l	1.0	--	1	
Dibromochloromethane	ND	ug/l	1.0	--	1	
1,1,2-Trichloroethane	ND	ug/l	1.0	--	1	
Tetrachloroethene	ND	ug/l	1.0	--	1	
Chlorobenzene	ND	ug/l	1.0	--	1	
1,2-Dichloroethane	ND	ug/l	1.0	--	1	
1,1,1-Trichloroethane	ND	ug/l	1.0	--	1	
Bromodichloromethane	ND	ug/l	1.0	--	1	
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	1	
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	1	
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	1	
Bromoform	ND	ug/l	2.0	--	1	
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	1	
Chloromethane	ND	ug/l	2.0	--	1	
Vinyl chloride	ND	ug/l	1.0	--	1	
Chloroethane	ND	ug/l	2.0	--	1	
1,1-Dichloroethene	ND	ug/l	1.0	--	1	
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	1	
Trichloroethene	86	ug/l	1.0	--	1	
1,2-Dichlorobenzene	ND	ug/l	1.0	--	1	
1,3-Dichlorobenzene	ND	ug/l	1.0	--	1	
1,4-Dichlorobenzene	ND	ug/l	1.0	--	1	
cis-1,2-Dichloroethene	2.6	ug/l	1.0	--	1	
1,2-Dichloroethene, Total	2.6	ug/l	1.0	--	1	



Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153546-12
 Client ID: MW-201S
 Sample Location: WOBURN, MA

Date Collected: 09/24/21 09:40
 Date Received: 10/01/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-13	D	Date Collected:	09/24/21 09:57
Client ID:	MW-207S		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 10/05/21 18:16
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	40	--	20	
1,1-Dichloroethane	ND	ug/l	20	--	20	
Chloroform	ND	ug/l	20	--	20	
Carbon tetrachloride	ND	ug/l	20	--	20	
1,2-Dichloropropane	ND	ug/l	20	--	20	
Dibromochloromethane	ND	ug/l	20	--	20	
1,1,2-Trichloroethane	ND	ug/l	20	--	20	
Tetrachloroethene	ND	ug/l	20	--	20	
Chlorobenzene	ND	ug/l	20	--	20	
1,2-Dichloroethane	ND	ug/l	20	--	20	
1,1,1-Trichloroethane	ND	ug/l	20	--	20	
Bromodichloromethane	ND	ug/l	20	--	20	
trans-1,3-Dichloropropene	ND	ug/l	8.0	--	20	
cis-1,3-Dichloropropene	ND	ug/l	8.0	--	20	
1,3-Dichloropropene, Total	ND	ug/l	8.0	--	20	
Bromoform	ND	ug/l	40	--	20	
1,1,2,2-Tetrachloroethane	ND	ug/l	20	--	20	
Chloromethane	ND	ug/l	40	--	20	
Vinyl chloride	41	ug/l	20	--	20	
Chloroethane	ND	ug/l	40	--	20	
1,1-Dichloroethene	ND	ug/l	20	--	20	
trans-1,2-Dichloroethene	ND	ug/l	20	--	20	
Trichloroethene	1800	ug/l	20	--	20	
1,2-Dichlorobenzene	ND	ug/l	20	--	20	
1,3-Dichlorobenzene	ND	ug/l	20	--	20	
1,4-Dichlorobenzene	ND	ug/l	20	--	20	
cis-1,2-Dichloroethene	620	ug/l	20	--	20	
1,2-Dichloroethene, Total	620	ug/l	20	--	20	



Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-13	D	Date Collected:	09/24/21 09:57
Client ID:	MW-207S		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	40	--	20
1,2-Dibromoethane	ND		ug/l	40	--	20
1,3-Dichloropropane	ND		ug/l	40	--	20
1,1,1,2-Tetrachloroethane	ND		ug/l	20	--	20
o-Chlorotoluene	ND		ug/l	40	--	20
p-Chlorotoluene	ND		ug/l	40	--	20
Hexachlorobutadiene	ND		ug/l	12	--	20
1,2,4-Trichlorobenzene	ND		ug/l	40	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	107		70-130

Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153546-14
 Client ID: MW-218M
 Sample Location: WOBURN, MA

Date Collected: 09/24/21 11:40
 Date Received: 10/01/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 10/05/21 12:43
 Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	2.0	--	1	
1,1-Dichloroethane	ND	ug/l	1.0	--	1	
Chloroform	ND	ug/l	1.0	--	1	
Carbon tetrachloride	ND	ug/l	1.0	--	1	
1,2-Dichloropropane	ND	ug/l	1.0	--	1	
Dibromochloromethane	ND	ug/l	1.0	--	1	
1,1,2-Trichloroethane	ND	ug/l	1.0	--	1	
Tetrachloroethene	ND	ug/l	1.0	--	1	
Chlorobenzene	ND	ug/l	1.0	--	1	
1,2-Dichloroethane	ND	ug/l	1.0	--	1	
1,1,1-Trichloroethane	ND	ug/l	1.0	--	1	
Bromodichloromethane	ND	ug/l	1.0	--	1	
trans-1,3-Dichloropropene	ND	ug/l	0.40	--	1	
cis-1,3-Dichloropropene	ND	ug/l	0.40	--	1	
1,3-Dichloropropene, Total	ND	ug/l	0.40	--	1	
Bromoform	ND	ug/l	2.0	--	1	
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	--	1	
Chloromethane	ND	ug/l	2.0	--	1	
Vinyl chloride	ND	ug/l	1.0	--	1	
Chloroethane	ND	ug/l	2.0	--	1	
1,1-Dichloroethene	ND	ug/l	1.0	--	1	
trans-1,2-Dichloroethene	ND	ug/l	1.0	--	1	
Trichloroethene	28	ug/l	1.0	--	1	
1,2-Dichlorobenzene	ND	ug/l	1.0	--	1	
1,3-Dichlorobenzene	ND	ug/l	1.0	--	1	
1,4-Dichlorobenzene	ND	ug/l	1.0	--	1	
cis-1,2-Dichloroethene	1.8	ug/l	1.0	--	1	
1,2-Dichloroethene, Total	1.8	ug/l	1.0	--	1	



Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-14	Date Collected:	09/24/21 11:40
Client ID:	MW-218M	Date Received:	10/01/21
Sample Location:	WOBURN, MA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-15	D	Date Collected:	09/24/21 10:35
Client ID:	MW-210S		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 10/05/21 18:46
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	4.0	--	2	
1,1-Dichloroethane	ND	ug/l	2.0	--	2	
Chloroform	ND	ug/l	2.0	--	2	
Carbon tetrachloride	ND	ug/l	2.0	--	2	
1,2-Dichloropropane	ND	ug/l	2.0	--	2	
Dibromochloromethane	ND	ug/l	2.0	--	2	
1,1,2-Trichloroethane	ND	ug/l	2.0	--	2	
Tetrachloroethene	3.5	ug/l	2.0	--	2	
Chlorobenzene	ND	ug/l	2.0	--	2	
1,2-Dichloroethane	ND	ug/l	2.0	--	2	
1,1,1-Trichloroethane	ND	ug/l	2.0	--	2	
Bromodichloromethane	ND	ug/l	2.0	--	2	
trans-1,3-Dichloropropene	ND	ug/l	0.80	--	2	
cis-1,3-Dichloropropene	ND	ug/l	0.80	--	2	
1,3-Dichloropropene, Total	ND	ug/l	0.80	--	2	
Bromoform	ND	ug/l	4.0	--	2	
1,1,2,2-Tetrachloroethane	ND	ug/l	2.0	--	2	
Chloromethane	ND	ug/l	4.0	--	2	
Vinyl chloride	19	ug/l	2.0	--	2	
Chloroethane	ND	ug/l	4.0	--	2	
1,1-Dichloroethene	ND	ug/l	2.0	--	2	
trans-1,2-Dichloroethene	ND	ug/l	2.0	--	2	
Trichloroethene	210	ug/l	2.0	--	2	
1,2-Dichlorobenzene	8.7	ug/l	2.0	--	2	
1,3-Dichlorobenzene	ND	ug/l	2.0	--	2	
1,4-Dichlorobenzene	ND	ug/l	2.0	--	2	
cis-1,2-Dichloroethene	220	ug/l	2.0	--	2	
1,2-Dichloroethene, Total	220	ug/l	2.0	--	2	



Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-15	D	Date Collected:	09/24/21 10:35
Client ID:	MW-210S		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	4.0	--	2
1,2-Dibromoethane	ND		ug/l	4.0	--	2
1,3-Dichloropropane	ND		ug/l	4.0	--	2
1,1,1,2-Tetrachloroethane	ND		ug/l	2.0	--	2
o-Chlorotoluene	ND		ug/l	4.0	--	2
p-Chlorotoluene	ND		ug/l	4.0	--	2
Hexachlorobutadiene	ND		ug/l	1.2	--	2
1,2,4-Trichlorobenzene	ND		ug/l	4.0	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	106		70-130

Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-16	D	Date Collected:	09/24/21 11:42
Client ID:	MW-217M		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 10/05/21 19:17
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND	ug/l	5.0	--	2.5	
1,1-Dichloroethane	ND	ug/l	2.5	--	2.5	
Chloroform	ND	ug/l	2.5	--	2.5	
Carbon tetrachloride	ND	ug/l	2.5	--	2.5	
1,2-Dichloropropane	ND	ug/l	2.5	--	2.5	
Dibromochloromethane	ND	ug/l	2.5	--	2.5	
1,1,2-Trichloroethane	ND	ug/l	2.5	--	2.5	
Tetrachloroethene	ND	ug/l	2.5	--	2.5	
Chlorobenzene	ND	ug/l	2.5	--	2.5	
1,2-Dichloroethane	ND	ug/l	2.5	--	2.5	
1,1,1-Trichloroethane	ND	ug/l	2.5	--	2.5	
Bromodichloromethane	ND	ug/l	2.5	--	2.5	
trans-1,3-Dichloropropene	ND	ug/l	1.0	--	2.5	
cis-1,3-Dichloropropene	ND	ug/l	1.0	--	2.5	
1,3-Dichloropropene, Total	ND	ug/l	1.0	--	2.5	
Bromoform	ND	ug/l	5.0	--	2.5	
1,1,2,2-Tetrachloroethane	ND	ug/l	2.5	--	2.5	
Chloromethane	ND	ug/l	5.0	--	2.5	
Vinyl chloride	ND	ug/l	2.5	--	2.5	
Chloroethane	ND	ug/l	5.0	--	2.5	
1,1-Dichloroethene	ND	ug/l	2.5	--	2.5	
trans-1,2-Dichloroethene	ND	ug/l	2.5	--	2.5	
Trichloroethene	ND	ug/l	2.5	--	2.5	
1,2-Dichlorobenzene	3.8	ug/l	2.5	--	2.5	
1,3-Dichlorobenzene	ND	ug/l	2.5	--	2.5	
1,4-Dichlorobenzene	ND	ug/l	2.5	--	2.5	
cis-1,2-Dichloroethene	ND	ug/l	2.5	--	2.5	
1,2-Dichloroethene, Total	ND	ug/l	2.5	--	2.5	



Project Name: 60 OLYMPIA-FDDA

Lab Number: L2153546

Project Number: 2491

Report Date: 10/06/21

SAMPLE RESULTS

Lab ID:	L2153546-16	D	Date Collected:	09/24/21 11:42
Client ID:	MW-217M		Date Received:	10/01/21
Sample Location:	WOBURN, MA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	--	2.5
1,2-Dibromoethane	ND		ug/l	5.0	--	2.5
1,3-Dichloropropane	ND		ug/l	5.0	--	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	--	2.5
o-Chlorotoluene	ND		ug/l	5.0	--	2.5
p-Chlorotoluene	ND		ug/l	5.0	--	2.5
Hexachlorobutadiene	ND		ug/l	1.5	--	2.5
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	106		70-130

Project Name: 60 OLYMPIA-FDDA
Project Number: 2491

Lab Number: L2153546
Report Date: 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 10/05/21 11:12
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s):	01-16		Batch:	WG1554939-5	
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.40	--
cis-1,3-Dichloropropene	ND		ug/l	0.40	--
1,3-Dichloropropene, Total	ND		ug/l	0.40	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene, Total	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--



Project Name: 60 OLYMPIA-FDDA
Project Number: 2491

Lab Number: L2153546
Report Date: 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 10/05/21 11:12
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s):	01-16	Batch:	WG1554939-5		
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 60 OLYMPIA-FDDA
Project Number: 2491

Lab Number: L2153546
Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-16 Batch: WG1554939-3 WG1554939-4								
Methylene chloride	110		99		70-130	11		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	93		91		70-130	2		20
Carbon tetrachloride	100		100		70-130	0		20
1,2-Dichloropropane	98		95		70-130	3		20
Dibromochloromethane	86		81		70-130	6		20
1,1,2-Trichloroethane	83		80		70-130	4		20
Tetrachloroethene	100		98		70-130	2		20
Chlorobenzene	97		93		70-130	4		20
1,2-Dichloroethane	91		89		70-130	2		20
1,1,1-Trichloroethane	98		94		70-130	4		20
Bromodichloromethane	87		87		70-130	0		20
trans-1,3-Dichloropropene	83		79		70-130	5		20
cis-1,3-Dichloropropene	87		85		70-130	2		20
Bromoform	84		83		70-130	1		20
1,1,2,2-Tetrachloroethane	73		72		70-130	1		20
Chloromethane	140	Q	130		70-130	7		20
Vinyl chloride	120		110		70-130	9		20
Chloroethane	140	Q	130		70-130	7		20
1,1-Dichloroethene	98		92		70-130	6		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	95		91		70-130	4		20
1,2-Dichlorobenzene	92		88		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 60 OLYMPIA-FDDA
Project Number: 2491

Lab Number: L2153546
Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-16 Batch: WG1554939-3 WG1554939-4								
1,3-Dichlorobenzene	97		92		70-130	5		20
1,4-Dichlorobenzene	96		92		70-130	4		20
cis-1,2-Dichloroethene	95		93		70-130	2		20
Dichlorodifluoromethane	140	Q	130		70-130	7		20
1,2-Dibromoethane	82		81		70-130	1		20
1,3-Dichloropropane	85		83		70-130	2		20
1,1,1,2-Tetrachloroethane	94		91		70-130	3		20
o-Chlorotoluene	98		94		70-130	4		20
p-Chlorotoluene	97		92		70-130	5		20
Hexachlorobutadiene	100		100		70-130	0		20
1,2,4-Trichlorobenzene	87		84		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		94		70-130
Toluene-d8	96		98		70-130
4-Bromofluorobenzene	96		93		70-130
Dibromofluoromethane	96		100		70-130

Project Name: 60 OLYMPIA-FDDA
Project Number: 2491

Serial_No:10062120:36
Lab Number: L2153546
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Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2153546-01A	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-01B	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-01C	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-02A	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-02B	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-02C	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-03A	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-03B	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-03C	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-04A	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-04B	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-04C	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-05A	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-05B	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-05C	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-06A	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-06B	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-06C	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-07A	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-07B	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-07C	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-08A	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-08B	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2153546-08C	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-09A	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-09B	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-09C	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-10A	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-10B	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-10C	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-11A	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-11B	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-11C	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-12A	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-12B	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-12C	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-13A	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-13B	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-13C	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-14A	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-14B	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-14C	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-15A	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-15B	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-15C	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-16A	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-16B	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)
L2153546-16C	Vial Ascorbic Acid/HCl preserved	A	NA		7.9	Y	Absent		MCP-8260-CHLR-10(14)

*Values in parentheses indicate holding time in days

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GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthrenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e., co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

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the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

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REFERENCES

- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at its own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine. SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C**, **SM4500CN-CE**, EPA 180.1, **SM2130B**, **SM4500CI-D**, **SM2320B**, **SM2540C**, **SM4500H-B**, **SM4500NO2-B**

EPA 332: Perchlorate; **EPA 524.2**: THMs and VOCs; **EPA 504.1**: EDB, DBCP.

Microbiology: **SM9215B**; **SM9223-P/A**, **SM9223B-Colilert-QT**, **SM9222D**.

Non-Potable Water

SM4500H,B, **EPA 120.1**, **SM2510B**, **SM2540C**, **SM2320B**, **SM4500CL-E**, **SM4500F-BC**, **SM4500NH3-BH**: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, **EPA 351.1**, **SM4500NO3-F**, **EPA 353.2**: Nitrate-N, **SM4500P-E**, **SM4500P-B**, **E**, **SM4500SO4-E**, **SM5220D**, **EPA 410.4**, **SM5210B**, **SM5310C**, **SM4500CL-D**, **EPA 1664**, **EPA 420.1**, **SM4500-CN-CE**, **SM2540D**, **EPA 300**: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.

Microbiology: **SM9223B-Colilert-QT**; **Enterolert-QT**, **SM9221E**, **EPA 1600**, **EPA 1603**, **SM9222D**.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8**: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg. **EPA 522**, **EPA 537.1**.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE 1 OF 2

Date Rec'd in Lab: 10/11/21

ALPHA Job #: L2153546

8 Walkup Drive
Westboro, MA 01581
Tel: 508-822-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Client Information

Client: GeoInsight

Address: One Monarch Dr Suite 200
Littleton, MA

Phone: 978 479 1600

Email: CASimmons@geoinc.com
CABinger@geoinc.com

Additional Project Information:

Chlorinated Halocarbons only please

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials
		Date	Time		
53546-01	MW-2110	8/24/21	11:20	GW	ARP X
-02	MW-2125		10:20		SGC
-03	MW-2095		10:18		ARP
-04	MW-2080		10:10		CAS
-05	MW-215m		11:10		SGC
-06	MW-2010		9:55		SGC
-07	MW-2090		10:32		ARP
-08	MW-2060		9:45		CAS
-09	MW-2165		11:30		SGC
-10	MW-2135	↓	10:30	↓	SGC ↓

Container Type
 P= Plastic
 A= Amber glass
 V= Vial
 G= Glass
 B= Bacterial cup
 C= Cube
 O= Other
 E= Encore
 D= BOD Bottle

Preservative
 A= None
 B= HCl
 C= HNO₃
 D= H₂SO₄
 E= NaOH
 F= MeOH
 G= NaHSO₄
 H= Na₂S₂O₃
 I= Ascorbic Acid
 J= NH₄Cl
 K= Zn Acetate
 O= Other

Container Type	✓
Preservative	B,I

Relinquished By:	Date/Time	Received By:	Date/Time
Alen C. Binger Joseph C. Binger	7/30/21/11:45 10/11/21 1605	Joseph C. Binger	10/11/21 14:10 10/11/21 16:00

All samples submitted are subject to
Alpha's Terms and Conditions.
See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)



CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab:

10/1/21

ALPHA Job #: L2153546

8 Walkup Drive
Westboro, MA 01581
Tel: 508-822-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Client Information

Client: Gee Insight

Address: One Monarch Dr Suite 201
Littleton, MA

Phone: 978 679 1600

Email: CASimmons@geoinc.com
CABinger@geoinc.com

Additional Project Information:

Chlorinated Halo carbons only please

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials
		Date	Time		
53546-11	MW-205D	9/24/21	9:40	GW	ARP
12	MW-201S		9:40		SGC
13	MW-207S		9:57		ARP
14	MW-218m		11:40		CAS
15	MW-210S		10:35		CAS
16	MW-217m		11:42		ARP

Container Type
 P= Plastic
 A= Amber glass
 V= Vial
 G= Glass
 B= Bacteria cup
 C= Cube
 O= Other
 E= Encore
 D= BOD Bottle

Preservative
 A= None
 B= HCl
 C= HNO₃
 D= H₂SO₄
 E= NaOH
 F= MeOH
 G= NaHSO₄
 H= Na₂S₂O₃
 I= Ascorbic Acid
 J= NH₄Cl
 K= Zn Acetate
 O= Other

Container Type	V
Preservative	B+

Relinquished By:
 Alan Felix
 Joseph C. Binger

Date/Time	Received By:	Date/Time	
9/30/21 11:45	Joseph C. Binger	10/1/21 14:10	
10/1/21 16:05		10/1/21 14:05	

All samples submitted are subject to
Alpha's Terms and Conditions.
See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

Method Blank Summary
Form 4
Volatiles

Client	:	GeoInsight	Lab Number	:	L2153546
Project Name	:	60 OLYMPIA-FDDA	Project Number	:	2491
Lab Sample ID	:	WG1554939-5	Lab File ID	:	VQ211005A06
Instrument ID	:	QUIMBY			
Matrix	:	WATER	Analysis Date	:	10/05/21 11:12

Client Sample No.	Lab Sample ID	Analysis Date
WG1554939-3LCS	WG1554939-3	10/05/21 08:42
WG1554939-4LCSD	WG1554939-4	10/05/21 09:12
MW-201D	L2153546-06	10/05/21 11:42
MW-201S	L2153546-12	10/05/21 12:13
MW-218M	L2153546-14	10/05/21 12:43
MW-211D	L2153546-01D	10/05/21 13:13
MW-212S	L2153546-02D	10/05/21 13:43
MW-209S	L2153546-03D	10/05/21 14:14
MW-208D	L2153546-04D	10/05/21 14:44
MW-215M	L2153546-05D	10/05/21 15:14
MW-209D	L2153546-07D	10/05/21 15:45
MW-206D	L2153546-08D	10/05/21 16:15
MW-216S	L2153546-09D	10/05/21 16:45
MW-213S	L2153546-10D	10/05/21 17:16
MW-205D	L2153546-11D	10/05/21 17:46
MW-207S	L2153546-13D	10/05/21 18:16
MW-210S	L2153546-15D	10/05/21 18:46
MW-217M	L2153546-16D	10/05/21 19:17

Calibration Verification Summary
Form 7
Volatiles

Client	: GeoInsight	Lab Number	: L2153546
Project Name	: 60 OLYMPIA-FDDA	Project Number	: 2491
Instrument ID	: QUIMBY	Calibration Date	: 10/05/21 08:42
Lab File ID	: VQ211005A01	Init. Calib. Date(s)	: 09/13/21 09/13/21
Sample No	: WG1554939-2	Init. Calib. Times	: 08:26 14:25
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	118	0
Dichlorodifluoromethane	0.572	0.8	-	-39.9*	20	173	0
Chloromethane	10	13.673	-	-36.7*	20	216	0
Vinyl chloride	0.636	0.735	-	-15.6	20	145	0
Chloroethane	0.289	0.397	-	-37.4*	20	178	0
1,1-Dichloroethene	0.436	0.428	-	1.8	20	126	0
Methylene chloride	0.47	0.512	-	-8.9	20	142	0
trans-1,2-Dichloroethene	0.481	0.526	-	-9.4	20	139	0
1,1-Dichloroethane	1.092	1.14	-	-4.4	20	127	0
cis-1,2-Dichloroethene	0.561	0.536	-	4.5	20	121	0
Bromochloromethane	0.221	0.189	-	14.5	20	110	0
Chloroform	1.047	0.976	-	6.8	20	117	0
Carbon tetrachloride	0.851	0.886	-	-4.1	20	127	0
Dibromofluoromethane	0.245	0.235	-	4.1	20	113	0
1,1,1-Trichloroethane	0.98	0.964	-	1.6	20	121	0
1,1-Dichloropropene	0.82	0.817	-	0.4	20	121	0
1,2-Dichloroethane-d4	0.293	0.272	-	7.2	20	113	0
1,2-Dichloroethane	0.669	0.609	-	9	20	113	0
Trichloroethene	0.594	0.566	-	4.7	20	122	0
1,2-Dichloropropane	0.577	0.562	-	2.6	20	120	0
Bromodichloromethane	0.768	0.672	-	12.5	20	109	0
cis-1,3-Dichloropropene	0.908	0.792	-	12.8	20	110	0
Chlorobenzene-d5	1	1	-	0	20	116	0
Toluene-d8	1.33	1.28	-	3.8	20	113	0
Tetrachloroethene	0.662	0.69	-	-4.2	20	126	0
trans-1,3-Dichloropropene	0.946	0.785	-	17	20	108	0
1,1,2-Trichloroethane	0.364	0.304	-	16.5	20	103	0
Chlorodibromomethane	0.541	0.463	-	14.4	20	106	0
1,3-Dichloropropane	0.809	0.691	-	14.6	20	103	0
1,2-Dibromoethane	0.401	0.33	-	17.7	20	99	0
Chlorobenzene	1.753	1.702	-	2.9	20	116	0
1,1,1,2-Tetrachloroethane	0.652	0.617	-	5.4	20	115	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	120	0
Bromoform	0.468	0.391	-	16.5	20	106	0
4-Bromofluorobenzene	0.937	0.901	-	3.8	20	113	0
1,1,2,2-Tetrachloroethane	0.796	0.584	-	26.6*	20	95	0
2-Chlorotoluene	4.884	4.81	-	1.5	20	119	0
4-Chlorotoluene	4.398	4.267	-	3	20	117	0
1,3-Dichlorobenzene	2.557	2.479	-	3.1	20	122	0
1,4-Dichlorobenzene	2.51	2.4	-	4.4	20	120	0
1,2-Dichlorobenzene	2.274	2.095	-	7.9	20	115	0
Hexachlorobutadiene	0.833	0.869	-	-4.3	20	132	0
1,2,4-Trichlorobenzene	1.199	1.048	-	12.6	20	118	0

* Value outside of QC limits.

